

caggggatcc ccacttgag acctgccgag tacaagaggt ccaggttgtc taggaaccgc 360
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<210> 4281

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-025-Q1-K1-H4

<400> 4281

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 ttggatgggtg ctacgattac tgcagggact gacactgata gaggttgtgg cacacaccac 240
 tttgcagggtt gatataaagt tagctgaagt actgcaaagt atgggagcaa aggtcacatg 300
 gaccgagact agcggaaactg gtactgagcc atgctggtag ccattctaca ggaaacatct 360
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<210> 4282

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-025-Q1-K1-H5

<400> 4282

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 gctgtggctg ccagacacca ccgtttcatc taccgcctcc gttctatatg ccgcctccga 180
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 taagcccggtg ccagcagttc ggatcctgcg gcgtcggcag cgtctgcagc ccgttcctgg 300
 gccagtgcgt cgagttcctg aggcaccagt gcagcccggc ggcgacgccc tacggctcgc 360
 cacagtgccca ggcgctgcag cagcagtgct gccaccagat 400

<210> 4283
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-025-Q1-K1-H6

 <400> 4283

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tcgtcagccc tatctctggg gcattgattg gcacacacca tcagggcaca gtagttgtag  180
aaactgatgc tacctgtgat caaccaagca actgtgcaa acctttctcc ctactgttag  240
ctacaacaat accttgcat caaccaactg tatacactga accctgctgc ttatgtgcag  300
cagcaactat taccattcag tcagctagct actgcctact ctgagcaaca tcaacttatg  360
acatttaacc aatgggaccg actgaacgcc gctgcctatt tgcagcagca tatactacta  420
cca                                               423
  
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<210> 4284
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-025-Q1-K1-H7

 <400> 4284

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cgcaacaaat gcgttcatta ttccacagtg ctcaactgct cctagtgcca ttattccaca  180
gttcctccca ccagttactt taatgggctt cgaacatcca gccgtgcaag cctacaggct  240
acaactagcg cttgcggcga gcgccttaca acaaccaatt gccaattgc aacaacaatc  300
cttggcacat gtaaccctac aaaccattgc aacgcaacaa caacaacaac aacagtttat  360
gccatcactg agccacctag ccgaggtgaa ccctgtcac                                     399
  
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<210> 4285
 <211> 435

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-025-Q1-K1-H8
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 gatggagcag aaggctaagg ctaaggaggc tgaggagagg aagaggcgga aagcagagaa 180
 ggacaaggaa agagccgagt tcaaagcacg caaggaagct gaggagagag agaagaagaa 240
 agcaaagaga gacaaaaaga aaggcgcagc accagcagat tcgagcgcca ttggtgacag 300
 ccatgctgct gcttcggcta cagcagatac tgacagtaat gcacagaca acccaagggg 360
 agctgacgtt tctcaaccag cgggtggctcc caggaggccg gctagaccag cggcggaat 420
 caagcaactg aacag 435

<210> 4286
 <211> 397
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-025-Q1-K1-H9
 <400> 4286

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 ctcttacgcc ttctctctct tcgacaagac caccaactcc ctgctcgtcg catctgaccc 120
 cgagggcagg gtgccggtct tctgggggat caccgacgac ggatgcgtcg acttctccga 180
 cgacatcgac atgctcaaag gctcatgcag caagtcgctc gcgccgttcc cgcattggctg 240
 cttctactcc aacgccctcg gagggctcaa gtgctacgag aacccaagc acaaggtcac 300
 cgatgtccac gccgacgaac aagagatctg cggtgccact ctcaaggcgg tggaagggtc 360
 tactgtctcg acggcgctgc actgatcgat catcatc 397

<210> 4287
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-026-Q1-K1-A1

<400> 4287

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acaagctcct atagcttccc ttcttcccc gtacctctca ccaacggtgt cttcggtatg 180
tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgagctg gcattctacc 240
tttatcacc ttgttctctc aacaatcatc agccctatta cagcagttac ctttgggtgca 300
tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360
tgctactct cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaactctgc 420
ttcttatttg caacaacaac aactaccatt ca 452

<210> 4288

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-026-Q1-K1-A11

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ggccgccaac aaatcatttt ttataatgct ccaacatacc ttgtaaaacc gacctgtgaa 120
accattcggg ccaggtgctt tgtcaagggg taagtcatta actgctgctc ataattcctc 180
ttctgtgaat gggttgtcca ggctggccaa atcatgctgt tgcataccaa tctcactaag 240
atTTTTTTTc gaacacgcag gagagctgcg tatcattgaa ttaagaaaag gaggggtctaa 300
aaaatagatc gaatac 316

<210> 4289

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-026-Q1-K1-A12

<400> 4289

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tattagccct acttgcgctt cttgccctat ttgcgagcgc aacagatgcg ttcattattc 120

cacaatgctc acttgcctct agtgccatta ttgcacagtt acttgcacca gttacttcaa 180
 tgggcttcga acacctatct gtgcaagcca acatgcatca acaagcgctt gcggcgagcg 240
 tcttacaaca accaattgcc caattgcaac aacaatcctt gccacatcta acactacaag 300
 ccatctcaac gcaacagcaa catcagttgc taccagcact gagccaccta gccatggcga 360
 accctgccgg ctacttgcaa gagcagctgc ttgcatccaa cccacttgct ctggcgaacg 420
 taattgc 427

<210> 4290

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-026-Q1-K1-A2

<400> 4290

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 atgtcacaa gctaccataa cttcccttct tcatccgtac ctgttaccaa cattctattg 180
 cctatatata acaccaactc tttaaaccta catgatccaa cttgcaacac caacctggca 240
 tattactctt tatcaccctc attcgctaca acaataatga gtcatatcac agcatttacc 300
 tttgctacat ctattggcac ataacataac gatacaacac ctacaacaac ttgtgctagc 360
 aaaccttgct gactactc 378

<210> 4291

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-026-Q1-K1-A3

<400> 4291

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 caaggactat cttggccctg ctcctttgca ggatatggca aggcaaattg ctacagccaa 120
 tggccctact ggctataata gggattacct gttctcaatg gagaaggcat tagccagcat 180
 tagccacgaa gatgattcga tcatagagct tgcaaacgag gtgaggaagg tgctcaacag 240

aacaaaggag accaagatca ctggtgccaa tgcttccttg aaatcacatg cccctcttgt 300
gcacctgtcc gcgcttcag aaggcaccgt tgtggactcg agatagcgag agccttggac 360
gttggacctc tactcggaat ctacttcag ctcttgcatg tttgtggcca tcatgtactg 420
atccccctt tt 432

<210> 4292
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-026-Q1-K1-A4

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cgccccggtc cgcgcgctcc cgccccgtcg cgtcaccgtc gtctgcagca gcgccccggc 120
ggcagccgag gcctcggacg ccgcagcgcc agtggagaag ttccggctcg acaatttggg 180
gccccagaag gggccccgcc ggccggccaa gcgtaaggga cgcggtattg ctgcaggcca 240
ggcgcgagc tgcgggttcg gtatgcgcgg gcagaaatcg cgctcggggc ccggcgctccg 300
gcgcggttc aaggaggggc agatgccgtt ctaccgccgt tcccccaagc tacggggcat 360
tgccggcggg atgcacattg gcctgccgaa 390

<210> 4293
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-026-Q1-K1-A5

<400> 4293

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acatctaaca atacaagcca tcacaacgca acagcaacaa cagtctctac cagcactgag 120
ccacctagcc atggtgaacc ctgccgccta cttgcaagag cagctgcttg catccaaccc 180
acttgctctg gcgaacgtag ttgcaaacca gcaacaacaa cagctacaac agttttctgcc 240
aacgctcagt caactagcca tgggtgaaccc tgccgcctac gtacaacaac aacaactgct 300

ttcatctagc ccgctcgtg tgggcaatgc acctacatac ctgcaacaac aattgttgca 360
acagattgta ccagctctga ctcaactagc tgtggcaaac cctgttgcct acttgcaaca 420
gct 423

<210> 4294

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-026-Q1-K1-A6

<400> 4294

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cttccaagac attatcccta cttgcgttta ttgccctttt tgtgagtgc acaaatgcgt 120
tcattattcc acaatgctca cttgctccga gtgccattat tccacagttc ctccctccag 180
ttacttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcgcttg 240
cggtagcgt cttagaacat ccaattgccc aattactaca acaatccttg gcacatgtaa 300
ccatacaaac catcgcaacg cagcagcaac aagcactgag ccacctagcc gtggtgaacc 360
ctatcgggcta cttgcaacaa cagctgcttg catgcaaccc acttgctttg gcaaacgtag 420
ctgcataacc 429

<210> 4295

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-026-Q1-K1-A7

<400> 4295

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ttttgcctgc ttatgtctct tggcttttct gcaagtgtct ctacggcgac cattttcccg 120
caatgctcgc aagctcctat agcttccctt cttccccgt acctctcacc agcgggtgtct 180
tcggtatgtg aaaacccaat tcttcaaccc tacaggatcc aacaggcaat cacagctggc 240
atcttacctt tatcaccctt gttcctccaa caatcatcag ccctattaca tcagttacct 300
ttggtgcatt tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca 360

aaccttgctg cctactctca gcaacagcag tttcttccat tcaaccaact agctgcattg 420
aactctgctt cttatttgca acaacaacaa c 451

<210> 4296
<211> 399
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-025-Q1-K1-H3
<400> 4296

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ttaaccaat tggccgcact gaaccccgct gcttatttgc agcagcaaact actactgcca 120
tttagcgagc tagctgcagc aagtcgtgct tccttcttga cacagcaaca gttgctgcct 180
ttctacaagc agtttgcggc taaccccgca accctcttac aactacaaca attggtgccc 240
tttgtccaac ttgctttgac aaaccagca gcctcctacc aacaacacat cattggtggg 300
gccctctttt agattgatta ttagttgtaa ttcaataata aagttttttg gatgatgtat 360
gtggccaacc agaaataaga agttacattt ccagattct 399

<210> 4297
<211> 404
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-006-Q1-K1-H3
<400> 4297

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cggtgacaag accattgggg gaggtgatga tgctttcaac accttcttca gtgagactgg 180
tgctgggaag cacgtgcccc gtgctgtttt tgttgacctt gaacccactg tcacgatga 240
ggtgaggact ggcacctacc gccagctctt ccacctgag cagctcatca gtgggaagga 300
ggatgcagcc aacaactttg ccggtggtea ctacaccatt ggcaaggaga ttgttgacct 360
atgccttgat cgcatacanga agcttgccga caactgcact ggtc 404

<210> 4298
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-006-Q1-K1-H4

<400> 4298
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 cgctccgcgt ccgagacctt gcgctctcgc tcgcagccga agagggcctc tccgctcccc 180
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 ccaagaacaa tgtggaggat ataagcgtag ttgagatggt tcttcaagag gtaggattgg 300
 atgaaggcca aaaggatgaa atagtggcaa ttattaaggg gatgggggtc aaaaatgaag 360
 tttcaaataa atctattggt gagccactc ttgaatttgc aattgtacaa gatgcagatc 420

<210> 4299
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-006-Q1-K1-H5

<400> 4299
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 acaagctcct atagcttccc ttcttcccc atacctctca ccagcgggtgt cttcaatgtg 180
 tgaaacccca attgttcaac cctacaggat ccaacaggca atcgcaacag gcattctacc 240
 attatcacc cttgttctcc aacaaccgtc agccctatta cagcagttac ctttgggtcca 300
 tttggtggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360
 tgcatactct cagcaacatc agtttcttcc attc 394

<210> 4300
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-H6

<400> 4300

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caacaagcac tgagccacct agccgtggtg aaccctatcg cctacttgca acaacagctg 120
cttgcatcca acccacttgc tttggcaaac gtagctgcat accaacaaca acaacagtgg 180
caacagtttc taccagcgtc cagtcaacta gccatggtga accctatcgc ctacctaca 240
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caacagttga tgcaacaaca gttgctgcaa caaattgtac cagctcttac tcagctagct 360
gtggcaaacc ctgctgccta cttgcaacaa ctac 394

<210> 4301

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-006-Q1-K1-H7

<400> 4301

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tcatcactct tcgtaaagat tttggtgatt gagatcttcg gcagcgctct gggactgttc 120
ggtgtcattg tgggcatcat tatgtcatct caagcgacat ggccagcaaa agcttgattt 180
tcaccatttg tagctctgta aattattcag atggagtgta tcgaaatgtg catgtggtct 240
aactgcattt tcatgttcct tttatgtggc gtcttttttg gcagaacacg aaatgcggcg 300
cgcgtaccgn caccgattgt agagttgcta ttcttactgc cggagtactc catgtgtgtt 360
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<210> 4302

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-H8

<400> 4302

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ttggggggcgc gcacgccatt gttcgagagg gatttaattg cttcaccttt cacagatttt 120
 accattcaga aaaaaagaaa ctaccggtat gacatactcg gtacatgtca aagttcacc 180
 gaacctggct tttgatgctg tactaggagt aagagtatta aataatgcac ttccttgctg 240
 atagtgttg aaagaataag atgtaacgtt gcaccttagc ttgtttcagg gccctgctgc 300
 tgataagagg gacttacgac ttagtggtac ttttagtgtc tgcaacctct acacgtgaaa 360
 tgtgatacgt gcctgttcgt gagctgtcag ttctcttctt caccttcgtc tcgcgcccac 420
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<210> 4303

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-H9

<400> 4303

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 tgcgcggggc tgcagggctt gtacggcgct ggcgcggggc tgacgacgat gatgggcggc 180
 ggcgggctgt acccctacgc ggagtacctg aagcagccgc agtgcagccc gctggcgggc 240
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 gtgctgccag cagcaaatga ggatgatgga cgtgcagtcc gtcgcgcaag cagctgcaga 360
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<210> 4304

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-007-Q1-K1-A11

<400> 4304

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caagcggcgg ctgcggctgc cagccaccgt cgtcgggttca tctaccgtcg ncgggtgcac 180
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 cgnccgtcca acctgcaccg ncgggtccatg tgccgncgcc ggttcacctg ccgncgncac 300
 catgccacta ccctactcaa ccgtcccggc ctcagcctca tccccagcca caccatgcc 360
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<210> 4305

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-007-Q1-K1-A12

<400> 4305

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 cgagaacatc ttcaaaggga tcgacgcccg gttcctgagc gaagccctgg gcgtcagcat 120
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 catggagggtg aggcacagcg tcgaacggct ggaccaggcc gacgtctaca gccctggggc 360
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 cg 422

<210> 4306

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-007-Q1-K1-A4

<400> 4306

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 gcgacaatth tccctcaatg ctcacaagct cctatagctt cccttcttcc cccatacctt 180
 ccatcaatta tagcttcaat atgtgaaaac ccagctcttc aaccatatag gtttcaacaa 240

gcaatcgcag caagcaacat acctttatcg cccttggtgg ttcaacaatc gccagcccta 300
tctttggtgc agtcattggt acaaaccatc agggcacaac agctgcagca actcgtgcta 360
cctctgatca accaagtagc ttgggcaaac ctttctccct actctcagca acaacatttt 420

<210> 4307

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-007-Q1-K1-A5

<400> 4307

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gtgttgaccg agtgcataac aggacaggac tggcagcgac gtgcggttaag aacgctcgct 120
tgatgcagtt agcaacacta gtgactcgca gtcggcgaca catggctggg tagaactgta 180
ctggtttagat ccagcgcagc tacgatgatg tccagtctct gctgcctaca cacatcgatg 240
ggtcatattc aagcgattgg caggcatgtg atctgctgct gattcacagc actgtcaggt 300
tccatcattg atacaaatgg ctcatgcgag cactgtgggc ttacgacac gtcagcactg 360
gctgtcatcg tacctgtgag ctgcggctag cgatggatcg cta 403

<210> 4308

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-007-Q1-K1-A6

<400> 4308

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cattggtcac tgccttccta cagcagcaac aattgctacc atacagccag ttctctttga 180
tgaaccctgc cttgtcgtgg cagcaacca tcgttggaag tgccatcttt tagattacat 240
atgagatgta atcgataatg gtgccctcat accggcatgt gtttcctaga aataatcaat 300
atattgattg acattt 316

<210> 4309

<211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-007-Q1-K1-A7

 <400> 4309

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ccggctcgtc ccacgcgtgc gatggaaagc acaattgtgt acctactact gcagctaaaa 60
tatTTTgcct ccttatgcgc ctTggTcttt ctgcaagtgc tgctacggcg accattttcc 120
cacaatgctc acaagctcct atagcttccc ttcttcccc gtacctctca ccaacgggtgt 180
cttcggtatg tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgcagctg 240
gcattcttacc tttatcacc ttgttctctc aacaatcatc agccctatta cagcagttac 300
ctttggTgca tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag 360
caaaccttgc tgcctactct cagcaacagc agtttcttcc attcaacaa ctagctgcat 420
tgaactctgc ttcttatttg caacaacaac aact 454
  
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<210> 4310
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-007-Q1-K1-A9

 <400> 4310

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tgctgcttat ttgcagcaac aactattacc atttagccag ctagctactg cctactctca 180
gcaacaacaa cttcttccat ttaaccaatt ggccgcactg aaccccgctg cttatttgca 240
gcagcaaata ctactaccat ttagccagct agctgcagca aaccgtgctt ncttcttgac 300
acagcaacag ttgctgcctt tctaccagca gtttgcggt aaccccgcaa ccctcttaca 360
actacaacaa ttgttgccct ttgtccaact tgctttgaca gaccagcgg ccttctacca 420
acaacaca 428
  
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<210> 4311
 <211> 392

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-007-Q1-K1-B1

<400> 4311

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 aatagcactg ttcttgaatg catacatgtc gatttgcattg gcaagggaat atcaaattgga 180
 ttgtgctaca tagattcgac aacggtaaag ttgcaggagc taccttttga ggttgggcgg 240
 ttcaaagaag aactgttgtt aggactccat gatattcagca ggaagactga ccttgttatt 300
 ggggtgcata acctagcaca ccgaattcca cagtatcaac ggtccaatac ttctcagcct 360
 cagnctgctc tttcacttct cttggatgaa gc 392

<210> 4312
 <211> 229
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-006-Q1-K1-G1

<400> 4312

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 cagacccatg catcaaccag catggactgt ggatcgatgg atgctgttac tcctgtcagg 180
 atttgttcta agttaatcct aaggaaaaaa tgggtgcttct tgggtgctgc 229

<210> 4313
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-006-Q1-K1-G10

<400> 4313

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ttctcatgtg ctttagtatt caagctgttt ctttagtacac agcacaggac ggctgcaagc 180
 tgcgggtcaac aacaaagatc atgagctagc aacatcactc cacatacaac tatcattgca 240
 caaagaacat acaacatcaa ccgaccacca caacattcac cagcagtcag caacctccaa 300
 ccaacaacta agttcactat gcaacgcaca taaaacagtc agcatacaac taagaagtct 360
 caatgttcaa ctaacaacaa tcaacaacac gcagcgatca ctcaccatac aacaactaac 420
 aacagc 426

<210> 4314

<211> 372

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-006-Q1-K1-G11

<400> 4314

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 catcgcaaca caacagcaac aacagttcct accagcactg agccaactag atgtggtgaa 120
 ccctgtcgcc tacttgcaac agcaggtgct tgcattccaac ccacttgctc tggcaaacgt 180
 agctgcatac caacaacaac aacaattgca acagtttctg ccagcgctca gtcaactagc 240
 catgggtgaac cctgccgnct acctacaaca gcaacaactg ctttcatcta gccctctcgt 300
 tgtgggtaat gcacctacat acctgcaaca acaattgctg caacagattg taccagctct 360
 gactcagcta gc 372

<210> 4315

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-G12

<400> 4315

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 ccctcaatgc tcacaagctc ctatagcttc ctttcttccc ccataccttc catcaattat 180
 agcttcagta tgtgaaaacc cagctcttca accatatagg cttcaacaag caatcgcagc 240

aagcaacata cctttatcgc ccttggtgtt tcaacaatca ccagccctat ctttggtgca 300
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ccaagtagc 369

<210> 4316
<211> 418
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-006-Q1-K1-G2
<400> 4316

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gcaaggngaa agcaggtgca aaaagtggga caagatcttc caaggcggcc ttcgagtggg 120
ctgaccaccc caccgctgtg atccccgcac atgcagaagc ttggcatcaa ggataagaac 180
gaagcagcga ggatcgttgc gctcgttaag aatcaaacta ctgccgctgc cgctactgct 240
gccagtgtg acaacgacga cgacgaggcc tgatcaatgc aacgacacat catgatctgc 300
tgctgcactt aattactatg ttcgtatata aataaatata cccggcgtag gcggtgttcc 360
ttatatggtc taaaatgtag ccagtgcatt ctaaactact ttatttcttg aggctcct 418

<210> 4317
<211> 432
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-006-Q1-K1-G3
<400> 4317

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cccctgttgg acatgattga tgataaagtg cttcgacgct ggcgtcacag gcctgttcct 120
ggcgcattgt gcacaggcaa aaggaggtgg ttcagtgatc cttgctccca gtggagcaac 180
gtcaacattg taagaccggg tcctcaagct gagaagttcc gaacatatat aaaccagatt 240
atggaagaat caaagtcaag caacaactct tgcaagcaat agcggtagaa tccgagcagc 300
aggcttcact tcccgagtt gaagcgttga gcttgtctca ttttgcgccg aggagctctc 360

catgtctcga gcacttcctg gcctctgctt caggagcaag catttntgca cctgttgat 420
gaactgaaca ca 432

<210> 4318
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-G4

<400> 4318

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gatattttcc ctccttatgc tccttgcctt ttctgcatgt gttgctaacg cgacaatttt 120
cccccaatg ctcacaagct cctatagctt cccttcttcc ccatacctt ccatcaatga 180
tagcttcagt atgtgaaaac ccagctcttc agccctatag gctccaacaa gcaatcgag 240
caagcaacat acctttatca cccttggtgt ttcaacaatc gccagcccta tctttggtgc 300
agtcattggt acaaaccatc agggcacagc agctgcagca actcgtgcta cctgtgatca 360
accaagtagc tcttgcaaac ctttctcctt actctcagca acaacaattt 410

<210> 4319
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-G5

<400> 4319

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ctcggaaggt gaatttatga tggttggtg cttctctttt tggagaaatg ggttggaat 120
tggtcttaaa aaatgagttg tgacctaat ttcataatgg actacagaag ccattaattc 180
aaacgccaca tacttgggcc tcaaatatca aaccgatggg aagtattaaa aaaacaaaac 240
ataaaatggt ttaaaaacaa aattggacag aacattcatt atggaacaaa ataaattttg 300
ttaagtacaa gaaaatgata ttaacttttg aaatatacta actgactagc atttggcct 360
gctatgcagg gacaacattg ttttaaatta tatctgtac aactcttaac t 411

<210> 4320
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-G6

<400> 4320

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 ctcacaagct cctatagctt cctttcttcc cccatacctc tcaccagcgg tgtcttcagt 180
 atgtgaaaac ccaattcttc aaccctagga tccaacaggc aatcgcagca ggcattctac 240
 ctttatcacc ctgttcctc caacaaccgt cagccctatt acagcagtta cctttgggtg 300
 atttggtggc acaaaacatc aaggcacaac aactacaaca acttggtgcta ggaaaccttg 360
 ctgcctactc tcagcaacag cagtttcttc cattcaacca actggctgca ttgaactctg 420
 ctgcttattt gcaacaacaa ctaccatt 448

<210> 4321
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-G7

<400> 4321

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 ttgctcggtg ccctcgctct cctggctctc gctgcgagcg ccacctccac gcatacaagc 120
 ggcggtgctg gctgccagcc accgccgccg gttcatctac cgccgccggt gcatctgcc 180
 cctccggttc acctgccacc tccggtgcat ctcccaccgc cgggtccacct gccgccgccg 240
 gtccacctgc caccgccggt ccatgtgccg ccgccggttc atctgccgcc gccaccatgc 300
 cactacccta ctcaaccgcc ccggcctcag cctcatcccc agccacaccc atgcccgctg 360
 caacagccgc atccaagccc gtgccagctg cagggaacct gcggcggttg cagcaccgcc 420

<210> 4322
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-G8

<400> 4322

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gaaccctatc gcctacttgc aacaacagat gttcgggtgc tacttgcaca cagacgggag 180
gctgcagctg tgggtcaaca cacagccatg agcagcaaca taattcaca caacatcata 240
cacaaaaaca acagcataaa ccacgaccac aacataacca gcagcagcaa cacctacaac 300
aacaagttca catgcaacca caaaaacatg agcaacaaca tgaagttcat gttcaacatc 360
aacatcaaca accgcagcac caccaccaac aacaacagca acagcaccaa caacaacatc 420
tatgggaaag gcaacaac 438

<210> 4323

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-G9

<400> 4323

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ttggatgaag atgagaacaa ttttccagct ctacttggtc aggcctctgt ttactttttg 120
atgggcgaag cagagcagca acacaaaaaa tcattggagc attacaggaa ctcattagat 180
ctctacaaga aagctcttcg ggtctattgc aattgtcctg ctgctgtaag gcttgggtata 240
gccttttgcc gatacaaaact tggacaagtg gaaaaagctc gtcaagcttt tcagcgagtt 300
ttagagttgg acccttaaaa tgggtgatgct ctagtagcac tggcaatcat gga 353

<210> 4324

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-H1

<400> 4324

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ggcgccatg atgacggcgc tcaaggccgc gacggccgag accttcggcg ggtcgatgct 240
ggagctgtcc gggctgatcc tggcgggcac cgtgatcgcg ctcacggtgg ccacccccgt 300
gctggatgac ttcagcccg tgcctgtgcc ggccgacatc gcgctggcgc tcatggcggc 360
cgggttcgtc accttcggcg gcctcggcgt cgc 393

<210> 4325

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-H10

<400> 4325

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agaacggttc ctaccagcac tgagccaact agatgtggtg aaccctgtcg cctacttgca 120
acagcaggtg cttgcatcca acccacttgc tctggcaaac gtagctgcat accaacaaca 180
acaacaattg caacagtttc tgccagcgct cagtcaacta gccatgggtga accctgctgc 240
ctacttgcaa cagctgctta cattcaacca actgactgtg tcgaactctg ctgcgtacct 300
acaacagcga caacagttac ttaatccact agcagtgccct aaccattgg tcaactgcctt 360
actacagcag caacaattgc taccatacag ccagttctct ttgatg 406

<210> 4326

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-H11

<400> 4326

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gtctagcagc agccaccgcc gcctcctcct cgcagccgcc gtccctgctct ccgtgctcgc 120
ggctgccagc gccagcgccg ggacctctg cgtgccgggg tgggccatcc cgcacaaccc 180
gctcccgagc tgccgctggt acgtgaccag ccggacctgc ggcacgggc c 231

<210> 4327
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-006-Q1-K1-H12

<400> 4327

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gccgtggccg tctgccaagg cgaggctcag cggcagaggc tcaggacac gcaagtgttg 180
caggaggtcc aggagagccc gctcgacgcg tgccgncagg tcctcgaccg gcagctaacc 240
ggcgccggcg gcgccggcg cgctggcccg ttccgggtgg gcaccgggct ccgcatgcgg 300
tgctgccagc agcttcagga cgtgagccgc gaggccgggt gcgccgncat tcggagcatg 360
gtcaggggat a 371

<210> 4328
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-H2

<400> 4328

acttgcttga gtctagctta ttgtctagat caatgtcttg accaacagcg tgactacgca 60
acacaacat acacacatat tcacacacat atcaaacac acataacaca ccacatacca 120
cacacacacc tacacacatt cacatcacac aaacatac 158

<210> 4329
<211> 340
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-006-Q1-K1-F9

<400> 4329

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ttctgcaagt gctgctacgg cgaccatttt cccgcaatgc tcgcaagctc ctatagcttc 120
 cctttcttccc ccgtacctct caccagcggg gtcttcggta tgtgaaaacc caattcttca 180
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 ccaacaatca tcagccctat tacaacagtt acctttgggtg catntattgg cacaaaacat 300
 cagggcacaa caactacaac aacttggtgct agcaaactt 340

<210> 4330
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-E4

<400> 4330

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 agttaccctc cttatgctcg ttgctctatc tgcattgtgt gctaacgcga caattttccc 120
 tcaatgctca caagctccta tagcttacct tattaccca taccttacat caacgatagc 180
 ttcagtatgt gaaaactcag ctcttgagcc ctataggctt caacaagcta tctcagcaag 240
 ccacctacct ttatcagcct tcgctgtttc accatcggca ggctctatgt tgggtgcagt 300
 cattggtaca taccatcaag gcacatgagc tgcattcaact cgggctacct gtgatcaacc 360
 cagtagctct ggcaaactt tc 382

<210> 4331
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-E5

<400> 4331

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aaggacacct ggccactgtg catcgacttc ctgcgagcg gcaaggtgga cgtcaagcct 360
ctcatcacc accgcttcgg cttctcgag cgggacgtgg aggaggcatt c 411

<210> 4332
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-E6

<400> 4332

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gctccttggt ctttctgcaa gtgctgtac cgcaaccatt ttcccacaat gtcacaagc 120
tcctatagct tcctttcttc ccccatacct ctaccagcg gtgtcttcag tatgtgaaaa 180
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acccttggtc ctccaacaac cgtcagccct attacagcag ttacctttgg tgcatttggt 300
ggcacaaaac atcaaggcac aacaactaca acaacttggt ctaggaaacc ttgctgccta 360
ctctcagcaa cagcagtttc ttccattcaa ccaactggct gcattgaact ctgctgctta 420
tttgcaacaa caacta 436

<210> 4333
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-E7

<400> 4333

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ctccgcgggc tctcttcaaa cgctgctacg gcgaccatac tcccgcaatg ctccaagct 120
cctataactc cctacatcc cccttacctc tcaccaacat cgcattcgct atgtcaaaac 180
ccaattctac aaccctacat gatccatcaa gcaatcacia ctacatcta tacctttatc 240
acccttggtc ctccaacaat catcaaccct attacatcac taacctttga tgcatttatt 300
gtcacaaaac atcaacacac aacaactaca acaactcgac ctaacaaacc ttgctgccta 360
ctctcagcat cagcagattc tcacaatcaa ccaactatct accattaact ttgattctaa 420

tttgaacaaa caacaactac catcaa

446

<210> 4334

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-006-Q1-K1-E8

<400> 4334

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tgcgcggggc tgcagggctt gtacggcgct ggcgcgggcc tgacgacgat gatgggcgcc 180
ggcgggctgt acccctacgc ggagtacctg aggcagccgc agtgcagccc gctggcgggc 240
gcgccctact acgcccgggtg tgggcagacg agcgccatgt accagccgct ccggcaacag 300
tgctgccagc agcagatgag gatgatggac gtgcagtcg tcgcgagca gctgcagatg 360
atgatgcagc ttgagcgtgc cgctgccgnc agcagcagcc tgtacgagcc agctctgatg 420
c 421

<210> 4335

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-E9

<400> 4335

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cttcctgatg ctggtcttgc ttactatgta actggcccat caagattagg ctgatgtact 120
tgcaaatcca ttccatgcac tgctttatgt ggtcttcatg ctgacaagtt gcgctctggt 180
cttaaaaacg tggattgaag ctactggatc atcagcaaca gatgatggta agcagcttaa 240
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gtacataccg actgat 316

<210> 4336

<211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-006-Q1-K1-F1
 <400> 4336

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 ggtctttctg caagtgtgc tacggcgacc attttccgc aatgctcgca agctcctata 120
 gcttcccttc ttccccgta cctctcacca gcggtgtctt cggatatgtga aaacccaatt 180
 cttcaaccct acaggatcca acaggcaatc acagctggca tcttaccttt atcacccttg 240
 ttctccaac aatcatcagc cctattacat cagttacctt tgggtgcattt attggcacia 300
 aacatcaggg cacaacaact acaacaactt gtgctagcaa accttgctgc ctactctcag 360
 caacagcagt ttcttccatt caaccaacta gctgcattga actctgcttc ttatttgcaa 420
 caacaacaac tacca 435

<210> 4337
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-F10
 <400> 4337

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 acgtgcagtc cgtcgcgag cagctgcaga tgatgatgca gcttgagcgt gccgctgccg 120
 ccagcagcag cctgtacgag ccagctctga tgcagcagca gcagcagctg ctggcagccc 180
 agggctctcaa ccccatggcc atgatgatgg cgcagaacat gccggccatg ggtggactct 240
 accagtacca gtaccagctg cccagctacc gcaccaaccc ctgtggcgctc tccgctgcca 300
 ttccgcccta ctactgattc atgatatttg ggaaatctcc tctatccatc cctctctatc 360
 tatatatgta ataatgcagt aagacgacac acattatcat 400

<210> 4338
 <211> 288
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-F11

<400> 4338

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tagccttctc tatttttgcct actgcaagtgc tccaagtctg cgacgacgac cgagatgtcg 120
acgggtgagcc gtgcacccct tgaccagaag cttgccctcg ccaagcgctg ctcccagagag 180
gcgactcttg ccggagctaa ggcggcagca gtggcgacta tcgcctccgc gattcccacc 240
ctcgcgagcg tgcggatgct gccgtggggc aaggccaaca tcaacccc 288

<210> 4339

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-006-Q1-K1-F2

<400> 4339

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gtcaacatgg ggaagacacg tggatggga gccgggagca agctcaagac ccaccgcagg 120
aaccagcggg gggctgacaa ggcatacaag aagagccatt tgggcaatga gtggaagaaa 180
cccttcgctg ggtcatccca tgccaagggc attgtcctgg agaagattgg tattgaggcc 240
aagcagccca actccgctat ccgtaagtgt gctcgtgttc agcttggtta gaatggcaag 300
aagattgctg ccttcgtgcc aaatgacggg tgtttgaact acattgagga aaatgatgag 360
gtctngattg ctggatttgg tcgtaagggt cacgctgtgg gagatattcc tgggtgtncgg 420
ttcaagggtcg t 431

<210> 4340

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-F4

<400> 4340

aaagcacaat agtgtaccaa caatggcagc caaaatattt tgcttcctta tgctcctggg 60
tctttctgca agtgcgtgcta ccgcaaccat tttccacaa tgctcacaag ctcttatagc 120

ttccttttctt cccccataacc tctcaccagc ggtgtcttca gtatgtgaaa acccaattct 180
tcaaccctac aggatccaac aggcaatccg cagcaggcat cttaccttta tcacccttgt 240
tcctccaaca accgtcagcc ctattacagc agttaccttt ggtgcatttg ttggcacaaa 300
acatcaaggc acaacaacta caacaacttg tgctaggaaa ccttgctgcc tactctcagc 360
aacagcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct tatttgcaaa 420
caacacta 428

<210> 4341

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-F5

<400> 4341

attgagacca actagcaaca tagaaagcac aatagtgtac caacaatggc agccaaaata 60
ttttgcttcc ttatgctcct tggcttttct gcaagtgttg ctaccgcaac cattttccca 120
caatgctcac aagctcctat agcttccctt cttcccccat acctctcacc agcgggtgtct 180
tcaatgtgtg aaaccccaat tgttcaacc tacaggatcc aacaggcaat cgcaacaggc 240
atcttaccat tatcaccctt gttcctccaa caaccgtcag cctattaca gcagttacct 300
ttggtccatt tgggtggcaca aaacatcag gcaacaac tacaacaact tgtgctagca 360
aaccttgctg catactctca gcaacatcag tttcttccat tcaaccaact ggc 413

<210> 4342

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-F6

<400> 4342

ttgagaccaa ctagcaacat agaaagcaca atagtgtacc aacaatggca gccaaaagat 60
tttgctcct tatgctcctt ggtctttctg caagtgtgc tacggcgacc attttccgc 120
aatgctcgca agctcctata gcttcccttc tcccccgta cctctcacca gcggtgtctt 180
cggtatgtga aaacccaatt cttcaaccct acaggatcca acaggcaatc gcagctggca 240

tcttaccttt atcaccccttg ttcctccaac aatcatcagc cctattacaa cagttacctt 300
 tgggtgcattt attggcacaa aacatcaggg cacaacaact acaacaactt gtgctagcaa 360
 accttgctgc ctactctcag caacagcagt ttcttccatt caaccaacta gggttc 415

<210> 4343

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-F7

<400> 4343

gccgatgcta ccgcctacgc cgacgctggg ggcgaccagt gcgagcctgg ctgggtcgatc 60
 ggcaccgagg acgacgccga cgccgactgc cagcgcgcg c agcagcagca gcatggccgc 120
 caccaccacc aaccaggca gggcgggcggg ccctcgtgca gtgtcatgtg aactagcata 180
 cccatgcatg catgtttggg ggtgtcgctc tcttgtcttg ccattttccg tgctcgtgtt 240
 tcgtctcgtg gaaaataagc aatttaaact tagtttaatt tctgtatgt catgtgttcg 300
 ttttagtggt tatgcctcct atatattatg gtcgtatgtg tgtgtcgaca tgcttggtgc 360
 tctcagtatg tgcgtgtgtc tgtttgtatg tgtcagcatc agtgtatgta agggtcgggt 420
 tggttaagttc tatcttatt 439

<210> 4344

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-F8

<400> 4344

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 ccaagatatt ttccctcctt atgctccttg ctctttctac atgtgttgct aacgcgacaa 120
 ttttccctca atgctcacia gctcctatag ctcccttct tccccatac cttccatcaa 180
 ttatagcttc agtatgtgaa aaccagctc ttcaaccata taggcttcaa caagcaatcg 240
 cagcaagcaa cataccttta tcgcccttgt tgtttcaaca atcaccagcc ctatctttgg 300
 tgcagtcatt ggtacaaacc atcagggcac aacagctgca gcaactcgtg ctacctgtga 360

tcaaccaagt agctctggca aacctttctc cctactctca gcaacaacaa tttcttccat 420
tcaaccaact gtctaca 437

<210> 4345
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-E2

<400> 4345

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tgtgtcaatt atttccgttg ggataagaag gaagaacaat cctctgattt gtacagattc 120
tgccgtctca tgaccaaatt ccgcaaagaa tgtgaatctc ttggccttga ggacttcccg 180
acttcagaac ggttgaaatg gcacgggtcat cagcccgga agcctgactg gtcagaggca 240
agccgattcg ttgccttcac catgaaggac gaaaccaaag gcgagatcta cgtggccttc 300
aacaccagtc accttccggt ggttggtggg cttccagagc gctctggggt ccgatgggag 360
ccggtggtgg acaccggcaa ggaggacca tatgac 396

<210> 4346
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-C8

<400> 4346

cagccagcta gctggtgtga gccctgctac cttcttgata caaccacagt tgttgccgtt 60
ctaccagcac gctgcgcta acgctggcac cctcttaca ctgcaacaat tgctgccatt 120
caaccaactt gctttgacaa acccagcagc gttctaccaa caaccatca ttggtggtgc 180
cctcttttag atttcttatg agttatagtt caataataaa gttttttgtc tgatgtttgt 240
ggcttcccag aaataagaaa gtacatttct 270

<210> 4347
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-C9

<400> 4347

gtgattcgta aggttttagga tgtaaaaggc gatggtttcc tactatcgca acgactcggc 60
ggccgattct atgttcacgt tgattttgga cggttttgac taaagtgatt cttatagaaa 120
tgggctgaaa agctggacgt ttggcagctc gcagcagaag ctgaaaaaaaa actgaaacag 180
atagggtcta tgtgtacgtg tggagaacct gagatgggtga ttgctgggac tgaacgttaa 240
tgtctttagt ttgtttggct tgtttactgg attgctgatg tctgaaattg tcatcaaattg 300
aaacgtgaac ttttctctgg ttcatTTaac tcacttatgg caaatgattt aacgcgacgt 360
gtgtatgcat ctgtgtgttc atcattt 387

<210> 4348

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-D1

<400> 4348

attttcagca ttcaaaaaca caccaagcga agcgactag caacgaccta acaccaaggg 60
ctaccaagat attagccctc cttgcgcttc ttgccctttt agtgagcgca acaaatgcgt 120
tcattattcc acagtgtca cttgctccta gtgccattat tccacagttc ctcccaccag 180
ttacttcaat gggcttcgaa catccagccg tgcaagccta caggctacaa ctagcgcttg 240
cggcgagcgc cttacaacaa ccaattgccc aattgcaaca acaatccttg gcacatctaa 300
ccctacaaac cattgcaacg caacaacaac aacaacaaca gtttctgcca tcactgagcc 360
acctagccgt ggtg 374

<210> 4349

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-D10

<400> 4349

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atgctactgc tgcagctcca ccagctggtg gacaacaagc acaaacgctg aatcaacagc 120
caccacagca gcagcagaag ccaaatacaa atgaccaggc ccaaggtggt tcaaattggcc 180
atcaggccac tagaatcgtc acaccccttc cacaaggacc atctaggtat ttcattgata 240
aaagttgcaa tccggagaat ctggaaatat cagttcaaca aggaatttgg gccacacaga 300
ggagtaatga agctaaactc aatgaagctt ttgaatccac tgagaatggt attttgatat 360
tctcaattaa tagaac 376

<210> 4350

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-D11

<400> 4350

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cgagggcgag tccgccgccg acgtctttga acgggggtggc cggtttcctg gagccgttgt 120
gccgggacat cgacatgggg cggtctggacc aggaccccgag ctgcgaaacg aacctggtga 180
tcgcttccaa cggcctaact tggcggtggt tcctgatgaa ggggttcagg ggaccggtgc 240
ccaatttgag cgccttaacc actttgacaa ctggga 276

<210> 4351

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-D12

<400> 4351

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atcaattata gcttcagtat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc 120
aatcgcagca agcaacatac ctttatcgcc cttgttggtt caacaatcac cagccctatc 180
tttggtgcag tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc 240
tgtgatcaac caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct 300
tccattcaac caactgtcta cactgaaccc tgctgcttat ttgcagcaac aactattacc 360

atttagccag ctagctact

379

<210> 4352
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-D2

<400> 4352

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ccaagatatt ttccctcctt atgctccttg ctctttctac atgtgttgct aacgcgacaa 120
ttttccctca atgtcacaa gtcctatag cttcccttct tccccatac cttccatcaa 180
ttatagcttc agtatgtgaa aaccagctc ttcaaccata taggcttcaa caagcaatcg 240
cagcaagcaa cataccttta tgcctcttggt tgtttcaaca atcaccagcc ctatctttgg 300
tgcagtcatt ggtacaaacc atcagggcac aacagctgca gcaactcgtg ctacctgtga 360
tcaaccaagt agctctggca aacctttctc cctactctca gcaacaacaa tttc 414

<210> 4353
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-D3

<400> 4353

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cttcaatgtg tgaaccccca attgttcaac cctacaggat ccaacaggca atcgcaacag 120
gcatcttacc attatcacc ttgttctctc aacaaccgtc agccctatta cagcagttac 180
ctttgggtcca tttgggtggca caaaacatca gggcacaaca actacaacaa cttgtgctag 240
caaaccctgc tgcatactct cagcaacatc agtttcttcc attcaaccaa ctggctgcat 300
tgaactctgg tgcattatttg caacaacaat taccattcag ccagctagtt gctgcctacc 360
cccagcaatt tcttccattc aaccaactag cagcattgaa ctctgctgct tatttacagc 420
agcaacaact ac 432

<210> 4354
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-D4

<400> 4354

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 acggtgcatg gaaacgcttc tataagcagc ttcaacattt tcctatgggtt atatgtaaca 120
 aagtttagaga aggggagcag agaattgtac ggataaagga gggagatcct agaggccgctc 180
 atgttggttat agtggatgac ttggtccagt ctggcagtac tttgattgag tgccagaaaag 240
 tactggctgc tcatggagct gcaaaggcca gtgcatatgt gacacatggc attttcccca 300
 atagctcatg ggagaaattt cagcatgaca atggaaaggg tccggagcat ggctgagcc 360
 acttttggct tactgattca tgccccctt 389

<210> 4355
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-D5

<400> 4355

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 attatccctc ttgcgcttc ttgccctttt tgtgagcgca acaaatgcgt tcattattcc 120
 acaatgctca cttgctccta atgccattat tccacagtcc ctccctccag ttacttcaat 180
 gggcttcgaa caccagctg tgcaagccta caggctacaa caagcgcttg cggcgagcgt 240
 cttacaacaa ccaattgccc aattacaaca acaatccttg gcacatctaa ccatacaaac 300
 catcgcaacg caacagcaac aacaatttct accagcactg agccaactag ctgtggtgaa 360
 ccctgtcgcc tacttgcaac agcagttgct tgcaccaaac ccatttgctc tggcaaacaat 420
 agttgcatac caaccaccac cacca 445

<210> 4356
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-D7

<400> 4356

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ggt agact tg caga atatt ctcca agac cccat ggta taca atgt gagg agt ggt 120
gttt tgttcg ttag tgct ag tcag cct atc aat gccct cg ctttt atctt tgac ggactc 180
catt ttgg tg tctc agact ctct gact ca gctt cctcca tgat ggtagt tgg agcaata 240
tcct cttt gt tttt gct gtg tgct ccacca ttttt cgggc ttct tgggtg ttgg gctggc 300
ctgg ctttt tcat gagg ttt gcg catg act gct ggatt ta tgag attggg atgg agagca 360
gggc cttggg ggttttt gca cagaaa agaa ccca ataca ggct gcaatg aacaaa atgt 420
ggat ctatgg ag 432

<210> 4357

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-D8

<400> 4357

aca atgct ca ctt gctcca gtt ccattat tac acagt tc ctccc accag ttact tgaat 60
ggg cttcgaa cacc agctg tgca agccta tagg ctacaa caag caattg cggcg agcgt 120
cttaca acaa ccaatttccc agtt gcaaca acaatccttg gcac atctaa caata caaac 180
catc gcaacg caac agcaac acaattcct accag cactg agcc acctag ccat ggtgaa 240
ccct gccgcc tacttg caac agc agttgct tgc atcaaac ccacttgctc tggcaa acgt 300
agtt gcaaac cagccacaac aac agctgca acagtttctt gcag cgctca gtca actagc 360
cat ggtgaac cctggcggct aact accaca gga accactg 400

<210> 4358

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-D9

<400> 4358

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 ccttatgctc cttggtcttt ctgcaagttt tgctaccgca accattttcc cacaatgctc 120
 acaagctcct atagcttccc ttcttcccc atacctctca ccagcgggtgt cttcaatgtg 180
 tgaaacccca attgttcaac cctacaggat ccaacaggca atcgcaacag gcattcttacc 240
 attatcacc cttgttcctcc aacaaccgtc agccctatta cagcagttac ctttgggtcca 300
 tttggtggca caaaacatca aggcacaaca actaccacaa cttgggctag caaacctt 358

<210> 4359

<211> 141

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-E1

<400> 4359

cgctgctgcc ggcggtgtcc cccactgaag aaactatgtg ctgtagtata gccgctggct 60
 agctagctag ttgagtcatt tagcggcgat gattgagtaa taatgtgtca cgcattacca 120
 tgggtggcag tgtcagtggtg a 141

<210> 4360

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-E10

<400> 4360

attgagacca actagcaaca tagaaagcac aatagtgtac caacaatggc aggcaaagta 60
 ttttgctccc ttatgctcct tgggtctttct gcaagtgtgt ctacggcgac cattttcccg 120
 caatgctcgc aagctcctat agcttccctt cttccccgt accctctacc agcgggtgtct 180
 tcggtatgtg aaaacccaat tcttcaacc tacaggatcc aacaggcaat cacagctggc 240
 atcttacctt tatcaccctt gttccttcaa caatcatcag ccctattaca tcagttacct 300
 ttggtgcatt tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgtctagca 360
 aaccttgctg cctactctta gcaacagcag tttct 395

<210> 4361
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-E11

<400> 4361

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 tgctccttgg tctttctgca agtgctgcta cggcgaccat tttcccgcaa tgctcgcaag 120
 ctcttatagc ttcccttctt cccccgtacc tctcaccagc ggtgtcttcg gtatgtgaaa 180
 acccaattct tcaaccctac aggatccaac aggcaatcac agctggcatc ttacctttat 240
 cacccttgtt cctccaacaa tcatcagccc tattacatca gttacctttg gtgcatttat 300
 tggcacaaaa catcagggga caacaactac aacaacttgt gctagc 346

<210> 4362
 <211> 363
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-006-Q1-K1-E12

<400> 4362

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 aaactatgtt ttgacgagtg tcaaaataag acactccgta aaacattctt tgccgagtg 120
 ctgccgtgga acactcgaca acgtatttaa aaaaaataaa acaatctttg tcaagtgc 180
 atcaaagggc actcgacaaa gacagctttg ccgagtggtc gatcgaggac actcggcaaa 240
 gtatatattt aaattaaaaa ataactttgc cgactgctag atcgcgacac tcgacaaagt 300
 ctgtttacat agtcttaact ggccttcttc ttctcttcat tntctttct cttcttcacg 360
 ccg 363

<210> 4363
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-C7

<400> 4363

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tggcataaat tcgcttgaga tttggaagct tttgaggaac agagagcatg ttcttgagat 120
gttgaagctt aagatcaagg aggaagctct tagaacctat ctttcatcat actcgtcttc 180
ctacaagtcg ttgagcctta accagctcac caccatgttt gatctcagcg agcagcatgc 240
ccacagtatt gttagcaaaa tgatgatgca tgaagagctt caggctagct ggcaccagcc 300
aaciaagtgc accgtgtttc acagactgga tcaaaccagg ctttatgagc tactctttca 360
ggttgcagaa aaaatatcgg tcctcgtgga gacaaacgac agggcgtact aactaata 418

<210> 4364

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-B12

<400> 4364

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tgtcagctgc cagcgcctct gcaatgcaga tgccctgccc ctgcgcgggg ctgcagggtc 120
tgtacggcgc tggcgccggc ctgacgacga tgatggggcg cggcggggctg taccctacg 180
cggagtacct gaggcagccg cagtgcagcc cgctggcggc ggcgcctac tacgccgggt 240
gtgggcagcc gagcgccatg ttccagccgc tccggcaaca gtgctgccag cagcagatga 300
ggatgatgga cgtgcagtcc gtcgcgcagc agctgcagat gatgatgcag cttgagcgtg 360

<210> 4365

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-B2

<400> 4365

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gcttatgctc cttgggtattt ctgcaagtgc tgctacggcg accattttcc cgcaatgctc 120
acaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtg cttcgggtatg 180

tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgagctg gcattctacc 240
 tttatcacc ttgttctct aacaatcatc agccctatta cagcagttac ctttggtgca 300
 tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360
 tgcctactct cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaactctgc 420
 ttcttatttg caacaacaac aac 443

<210> 4366

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-B3

<400> 4366

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 ttatcaccctc tgttcttca acaatcgcca gccctatctt tgggtgcagtc attggtacaa 180
 accatcaggg cacaacagct gcaacaactc gtgctaccag tgatcagcca agtagctgtg 240
 gcaaaccctt ctcctactc tcagcaacaa caatttcttc cattcaacca actgtctaca 300
 ctgaaccctg ctgcttattt acaacaacaa caactactac cattcag 347

<210> 4367

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-B4

<400> 4367

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 gcattctgcca cctccggttc acctgccacc tccggtgcat ctcccacgc cgggtccacct 120
 gccgccgccc gtccacctgc caccgccggt ccatgtgccg ccgccggttc atctgccgcc 180
 gccaccatgc cactacccta ctcaaccgcc ccggcctcag cctcatcccc agccacaccc 240
 atgcccgtgc caacagccgc atccaagccc gtgccagctg cagggaacct ggggcgttgg 300
 cagcaccgcc atcctgggcc agtgcgctga gttcctgagg catcagtgca gcccgcggc 360

gacgccctac tgctcgctc agtgccagtc ggtgcggcag cagt

404

<210> 4368

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-B6

<400> 4368

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atattttccc tccttatgct ccttgctctt tctacatgtg ttgctaacgc gacaattttc 120
cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180
gcttcagtat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240
agcaacatac ctttatcgcc cttgttggtt caacaatcac cagccctatc tttggtgcag 300
tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac 360
caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420
caactgtcta cact 434

<210> 4369

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-B8

<400> 4369

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tccctcetta tgctccttgc tctttctgca tgtgttgcta acgcgacaat tttccctcaa 120
tgctcacaag ctcctatagc ttcccttctt ccccatacc ttccatcaat gatagcttca 180
gtatgtgaaa acccagctct tcagccctat aggtccaac aagcaatgc agcaagcaac 240
atacctttat cacccttggt gtttcaacaa tcgccagccc tatctttggt gcagtcattg 300
gtacaaacca tcagggcaca gcagctgcag caactcgtgc tacctgtgat caaccaagta 360
gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt caaccaactg 420
tctacac 427

<210> 4370
 <211> 229
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-006-Q1-K1-B9

 <400> 4370

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 gccttgcgct aattgccctt tgggtgagcg caacagaggc gttcatgaat cgacatggct 120
 cacgtgttcg gagcgccgat ccgcccggac gtgggtccgct tcaccacaaa gctgctgtcc 180
 tgcaacaagc gccagcctta cgcagtcttc cgacgagctg gccaccaga 229

<210> 4371
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-006-Q1-K1-C1

 <400> 4371

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 tccatcctta tgctccttgc tctttctgca tgtgttgcta acgcgaccat ttttctctaa 120
 tactcacaag ctcttatagc tgcccttctt ccccatatac ttccatcaat gaccgcttta 180
 gtatgtgaaa acccagccct tcaaccctac aggatccagc aagcaatcgc aacaagcaac 240
 ttacctttat cacacctgtt ctttcaacaa tcgccagccc tatctttggg gcagtcattg 300
 gtacaaacca tcagggcaga acagttgcag caactcgtgc taccagtgat cagccaagta 360
 gctctggcaa acctttcccc ctactctcag caacaacaat ttc 403

<210> 4372
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-006-Q1-K1-C10

 <400> 4372

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ccttgctctt tctgcatgtg ttgctaacgc gacaattttc cctcaatgct cacaagctcc 120
tatagcttcc cttcttcccc cataccttcc atcaatgata gcttcagtat gtgaaaaccc 180
agctcttcaa ccctataggc tccaacaagc aatcgagca agcaacatac ctttatcacc 240
cttgcttcaa caatcgccag ccctatcttt ggtgcagtca ttggtacaaa ccatcaaggc 300
acagcagctg cagcaactcg tgctacctgt gatcaaccaa gtagctctgg caaacccctc 360
tcctactat cagcaacaac aatttc 386

<210> 4373

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-C11

<400> 4373

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taagttatta gaccattaat gcacgtgtat gtcctagtag cgagcgcgac gagtgaacc 120
attatgacac agtgatcact agctactgac gccatgattg cagagcaacg tataccagtt 180
acttcaatgg gcttatgaca tacaatctcg cgagcctacg tgctacatat agctggtagc 240
gacagcgtga tgaatcggac aagtgccgaa ttgctacaac aatcatgggc gcatatgacc 300
ctacgcacca tatgatcgca aca 323

<210> 4374

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-C12

<400> 4374

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gcttcttatg ctacttggtc tttctgcaag tgctgctacg gcgaccattt taccgcaatg 120
ctcgcagct actatagctt cccttcttcc accgtaccta tcaccagcgg agcattcagt 180
atgtgaaaac ccaattcttc aaacttacac gatccaacag ggcattacag catccatttt 240
acctttatca cctcgatcc ttcaaccatc ataagctcta ttacatcagt taccttcggc 300

gcatttattg gcacaaaaca tcatggcaca acaactacaa caacttgagc tatgcaaacc 360
 ttgctgccta ctctcagcaa cagca 385

<210> 4375
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-006-Q1-K1-C2
 <400> 4375

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 gctcctaattg tgccaccaga agaactgtat gcaacacaat tagctcagct ccaagaaatg 120
 gggtttttttg acacacagga taacatccga gccttggccg tcaactgctgg aaatgttcat 180
 gctgcagtgg agcgacttct tggaaacatg ggccaataga atatgatgac gaacataact 240
 gtgtttctgat ccatgcgatc tgtagtggc attgtgagat tatgtctggt tcattgggtt 300
 tagacctgag attgagaggc ggcatctaga ttctgtgttt aaggatgaat aaagagtgtg 360
 ccggtggaac cttacataat aatgggggct ggtgtcat 398

<210> 4376
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-006-Q1-K1-C3
 <400> 4376

caccactcca ctgcgccgag gccgccgggc gccgccgagg ggatcggagc aagatgtgct 60
 tccacatcgt gctggagcgg aacatgcagc tgcacccacg acacttcggg ccgcacctcc 120
 gcgacaagct cgttttccaag ctcatcaagg acgtcgaggg cacctgcagc gggcggcacg 180
 gggttcgttgt ggcatcacg ggtgtggagg acatcggcaa ggggctcatc cgggaaggca 240
 cgggatacgt caocttcccc gtcaagtacc agtgcgttgt ctttagacct ttcaagggcg 300
 agatcctcga agctgtcgtc accatggtga acaagatggg cttctttgcg gaggctgggc 360
 cgggtgcagat ctctgtgtcc aaccatttga ttccagacga tatgga 406

<210> 4377

<211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-C4

<400> 4377

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 agatgaaaga tgcatttatc tcagatgggtt gcttactgag agaatgcaac atcgagcatt 120
 ctgtgattgg agtctgctca cgtgtcagct ctggatgtga actcaaggac tccgtgatga 180
 tgggagcgga cacctatgaa actgaagaag aagcttcaaa gctactgtta gctgggaagg 240
 tcccagttgg aataggaagg aacacaaaga taaggaactg tatcattgac atgaatgcta 300
 ggattgggaa gaacgtggtg atcacaaaca gtaagggcat ccaagaggct gatcacccgg 360
 aagaagggtg ctacataagg tctggaatcg tggatgatctt gaagaatg 408

<210> 4378
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-C5

<400> 4378

ggcgctcct cccccaccta gaaaccaga ggctctaata ctagttcttt ctgtgcagtc 60
 gccgccaat tccccaccc aattccact ctccgctoga cagatccata catgatggga 120
 gaggccaagg agaacgacgt ttatgaggag gagctcctgg actacgagga ggacgacgac 180
 aagacggtcg atggctccgc tgctaagccc accggagagg tcgcaaagaa gggctacgtc 240
 gggatccaca gttccggttt cagagacttc ctgctcaagc cagagctgct ccgtgctatc 300
 caggattgtg gttttgagca tccttccgaa gtgcaacacg agtgtatccc tcaagccatt 360
 cttggaatgg atgtcatctg tcaagctaaa tctgggatgg ggaaaact 408

<210> 4379
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-C6

<400> 4379

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tatccctcct tgcgcttctt gcgctttttg cgagcgcaac aaatgcgttc attattccac 120
aatgctcact tgctccaagt tccattatta cacagttcct cccaccagtt acttcaatgg 180
gcttcgaaca cccagctgtg caagcctata ggctacaaca agcaattgcg gcgagcgtct 240
tacaacaacc aatttcccag ttgcaacaac aatccttggc acatctaaca atacaaacca 300
tcgcaacgca acagcaacaa caattcctac cagcactgag ccacctagcc atgggtgaacc 360
ctgccgccta cctacaacag caacaactgc tttcatctag cccgctcgct gtggccaatg 420
cacctacata ccttgaacaa ccattgg 447

<210> 4380

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-B11

<400> 4380

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tcatgaattc ctaaggcagc agtgcagccc tttggtaatg ctttttctcc aatcacgttt 120
gatacaacca agtagctgcc aggtattgca gcaacaatgt tgtcatgata ttaggcagat 180
tgagccacaa tacattcacc aagcaatcta caacatgggt caatccataa tccaggagga 240
gcaacaacaa caaccatgtg agttatgtgg atctcaacaa gctactcaaa gtgcggtggc 300
aatcttgaca gcagcacaat 320

<210> 4381

<211> 377

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-005-Q1-K1-H8

<400> 4381

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ggcgaggagg cggccaagaa ggaggaggtg gagaagccca aggaggccgc cgcggcagag 120

gagaagaaga aggacgacaa gcccaaggaa gtaggcggcg gcggcgagaa gcccaaggac 180
aaggaggagg acgagaagaa gaaggaggac gcgccgtcgc cttcgccgnc cccgccgtcg 240
gaggagggtcg agatgcgggt ctacatgcac tgcgaagggt gcgcccgcaa ggtcaagaag 300
atcctcaggc gcttcgacgg agtggaggat gtgatcgccg actccaaggc gcacaagggtg 360
ctggtgaagg ggaagaa 377

<210> 4382
<211> 355
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-005-Q1-K1-H9

<400> 4382
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ctgatccgac aaccatttgg agctgggacg gcattcacct gacggaggct gcctaccgcc 120
atatcgccaa aggctggcta tacgggcctt tcgcggaacca accgatcatc caatcctcat 180
gatcatgccg ttcttgcggt agagtttatc aaagtagcat tgagagttag agaaaaaaaa 240
tggagcgggg aaagtaggtc ttccatacag ttccaatgct tgcatacttg tacatctnca 300
tttgattgga ttcatttgcc atgggggtac aaaagtggga tagtaagtcg cacaa 355

<210> 4383
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-A1

<400> 4383
ggagagaagg aatccgatcc atccaagcca agccaaggca gagaagaaga agaggaggaa 60
gaagaagcat cggcagcatg tcggagggga ctgccaactg cgtggacatc ctgatcgcca 120
tcatectgcc tccgctgggg gtgttctca agtacgggtg cggccaagag ttctggatct 180
gcctcctcct cacttctctc ggctacatcc ccggcatcat ctacgccatc tacgccatca 240
ccaagaacac ctagctagtc atccttgccg acgacgatcc atgtctctgt atctgtgtct 300

gttcatatgc ctgatgccga cttgtgctgt atgtagttgc ttgaattcag tcgtgttctt 360
 ggtttgctac cgt 373

<210> 4384
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-A10

<400> 4384

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 gtaccaggcg acatacggcg tggctctgca gtccttcttg cagcagcagc cgcaaggcga 120
 gctcgcggcg ctgatggcg cccaggtagc gcagcagctg acggcgatgt gcggtctgca 180
 gctgcagcag ccaggtcctt gcccttgcaa cgcagctgcc ggcggtgtct actactgagg 240
 aaactatgta ctgtagtaat aatgtaatgg agccgctgac tagctaccta tagggctata 300
 gctaggtcac tcgttttagcg gcgatgagta acggagtgtc acccatcacc atgggtggca 360
 gtgtgagcaa tg 372

<210> 4385
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-A11

<400> 4385

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 ctttgaggatg tgtacggaca tttccgaatg gtgcagtcta tagttctctt tccccgtacc 120
 tgtaacagcg ggtgtctttc gtatgtgaaa acccaattct ttaaacccta ccagatccca 180
 caaggcaata cagctgcacg taccttatca cccttggtcc tccaacaatc atcagcccta 240
 ttacatcagt tacctttgtg cattaattgg cacaaaacat cagggcacia cacttacaac 300
 aacttgggtt agcaaacct 319

<210> 4386
 <211> 350
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-A12

<400> 4386

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tactttccct ccttatgctc cttgctcttt ctgcatgtgt tgctaacgcg acaattttcc 120
ctcaatgctc acaagctcct atagcttccc ttcttcccc ataccttcca tcaatgatag 180
cttcagtatg tgaaaaccca gctcttcaac cctataggct ccaacaagca atcgcagcaa 240
gcaacatacc tttatcacc ttggttcaac aatcgccagc cctatctttg gtgcagtcac 300
tggtacaaac catcaaagca caacagctgc agcaactcgt gctacctggg 350

<210> 4387

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-006-Q1-K1-A2

<400> 4387

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gtacgagccg tttgatgagg acttcgagg tagatggatc gtctccaaga aggatgaata 180
ccaagggtga tggaagcatg ccaagagtga tgggcatgag gactatggcc tccttgtag 240
tgacaaggca aggaaatacg ccataatcaa ggagcttgat gagccagtta ccttaaata 300
tgggacagtg gtctgcagt ttgaagttag acttcagaat ggccttgaat ggggaggtgc 360
ctacattaag tacantccgc ctcaggatgc tggatgggat gccaaagaag ttgataatga 420
g 421

<210> 4388

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-A3

<400> 4388

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tatgtcctt ggtctttctg caagtgtgc tacggcgacc attttccac aatgtcaca 120
agtcctata gcttcccttc tcccccgta cctctcacca acggtgtctt cggtatgtga 180
aaaccaatt cttcaacct acaggatcca acaggcaatc gcagctggca tcttaccttt 240
atcaccttg ttcctccaac aatcatcagc cctattacag cagttacctt tgggtgcattt 300
attggcaca aacatcaggg cacaacaact acaacaactt gggctaaca aacttggttg 360
ct 362

<210> 4389

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-006-Q1-K1-A4

<400> 4389

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gctccttggt ctttctgcaa gtgctgtac ggcgaccatt ttcccgcaat gctcgcaagc 120
tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg tatgtgaaaa 180
ccaattctt caaccctaca ggatccaaca ggcaatcaca gctggcatct tacctttatc 240
accttggtc ctccaacaat catcagccct attacatcag ttacctttgg tgcatttatt 300
ggcacaaaac atcagggcac acaactaca acaacttggt ctagcaaacc ttgctgcta 360
ctctcagcaa cagcaagttc ttccattcaa ccaactagct gcattgaact ctgcttncta 420
ttttgcacaa caacaactac cat 443

<210> 4390

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-A5

<400> 4390

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ccttatgctg cttgggtcttt ctgcaagtgc tgctaccgca accatitttcc cacaatgctc 120
acaagctcct atagcttctt ttcttccccc atacctctca ccagcgggtg cttcagtatg 180
tgaaaaccca attcttcaac octacaggat ccaacaggca atcgcagcag gcatcttacc 240
tttatcacc ttgttctctc aacaaccgtc agccctatta cagcagttac ctttgggtgca 300
tttgttggca caaaacatca aggcacaaca actacaacaa cttgtgctaa gaaaccttgc 360
tgctactct cagcaacagc agtttc 386

<210> 4391

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-A6

<400> 4391

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cggagaagaa ggtcccggag ctatggttct acacagagct caaaactagg accagctcca 120
tcacgctcgc catacgcatg gacaacctgt acctcgtagg cttcaggacc ccgggcgggg 180
tgtgggtggga gttcggcaag gacggcgaca cccacctctt cggcgacaac cccaggtggc 240
tcggcttcgg cggcaggtac caggacctca tcggcaacaa gggctctggag accgtcacca 300
tgggcccgcgc cgaaatgccc aggtcgttga cggccctggg gaagaagaag aagatggcga 360
cactggagga ggaggaggtg cagatgcaga tgcagatgcc ggaggccgtt gatctggcgg 420
cggc 424

<210> 4392

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-A7

<400> 4392

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tgcttcctta tgctccttgg tctttctgca agtgctgcta ccgcaaccat tttcccacaa 120
tgctcacaag ctctatagc ttcctttctt ccccatacc tctcaccagc ggtgtcttca 180

gtatgtgaaa acccaattct tcaaccctac aggatccaac aggcaatcgc agcaggcatc 240
 ttacctttat cacccttggt cctccaacaa ccgtcagccc tattacagca gttacctttg 300
 gtgcatttgt tggcacaaaa catcaaggca caacaactac aacaacttgt gctaggaaac 360
 cttgctgcct actctcagca acagcagttt cttccattc 399

<210> 4393

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-A8

<400> 4393

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 attgttcatt caggtcattg ctcacactga cactgccacc catggtgatg cgtgacacat 120
 tattactcaa tcatcgccgc taaatgactc aactagctag ctagccagcg gctatactac 180
 agcacatagt ttcttcagtg ggggacaccc agctgtgcaa gcctataggc tacaacaagc 240
 gattgcggcg agcgtcttac aacaaccaat tgcccaattg caacaacaat ccttggcaca 300
 tctaacaata caaacctcg caacgcaaca gcaacaacag ttcctaccag cactgagcca 360
 cctagccatg gtgaaccctg tcgcctactt gcaacagcag ctgcttgcac ccaaccact 420
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<210> 4394

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-006-Q1-K1-A9

<400> 4394

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 tgggtctgaaa agctggacgt atggcagact gcacagaag ctgacagaaa actgaaacag 180
 atagggctta tgtgtacgtg tggagaacct gagatggtga ttgctgtgac tgaacgttaa 240
 tgtcatgcag ctgcctggct agtacactgg attgctgatg tctgagattg tcactactg 300

aaacgtgaac tttcctgtgg atcatgtaac tcacttatgg cagatgattc aacgccacgt 360
gtgtatgcat 370

<210> 4395
<211> 335
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-006-Q1-K1-B1
<400> 4395

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gggaaggcca tccgaccagc tgggcaggag aaacctcact gacagccccg tatttgacgg 120
ccgtggccct gacgccagcc tcgtggctcg cgtacaggga gtcgctaccc agatggggcg 180
cgtgcgccag ttgtacaccg tcgtgttcca ggagaggccg ctcaagggtt ccacgctcgt 240
caccgaaggc gcgatgacag aagggtcaga cgagtgggag atctacgggtg gaactggagt 300
gttcgcgatg gcgagaggcg tcataaggag aacgt 335

<210> 4396
<211> 361
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-006-Q1-K1-B10
<400> 4396

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cgcgaccaa cagatccaat ccaatggcga tggcaccgtc cgcagcatgc gtcgtctcgt 120
tccccgcccc cccggcgggc tccacggccg ggccccgcgc cgccgcgggc gccggggcgg 180
tccacgcttt cgcgggggtc gcgaggggcg ccaagtgggt ggccgcgctt ctgggggtgt 240
ccgggaaagg ccacttctcg gaaggccccg gccccgcgcc cgccgggggc ccagaccaag 300
cgccgcggaa gcaagtcctt ggggttatta ccgaagaaaa aggcccgga cttgcggccc 360
c 361

<210> 4397
<211> 439
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-H7

<400> 4397

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ccttatgctc cttgggtcttt ctgcaagtgc tgctacggcg accattttcc cgcaatgctc 120
gcaagctcct atagcttccc ttcttccccc gtacctctca ccagcgggtgt cttcgggtatg 180
tgaaaacca attcttcaac cctacaggat ccaacaggca atcgcagctg gcatcttacc 240
tttatcacc cttgttcctcc aacaatcatc agccctatta caacagttac ctttgggtgca 300
tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360
tgctactct cagcaacagc agttttctcc attcaaccaa ctaagttcat tgaactctgc 420
ttcttatttg caacaacaa 439

<210> 4398

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-G12

<400> 4398

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tgctgcttac cccagcaat ttcttccatt caaccaactg gcagcattga actctgctgc 120
ttatttacia cagcaacagc taccaccatt cagccagcta gctgatgtga gccctgggtgc 180
cttcttgaca caacaacagt tggtgccgtt ctacctgcac gctgcgcta acgctggcac 240
cctcttacia ctgcaacaat tgctgccatt caaccaactt gctttgacaa acccaacagc 300
gttctaccaa caaccatca ttgggtgggtgc cctcttttag attgcttatt agttgtaatt 360
caataatgaa gttttttggc tgatgtatgt ggcctcctag aaataagaag gtatattttc 420

<210> 4399

<211> 154

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-005-Q1-K1-G2

<400> 4399

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ccattggggg cgagcccgag aagcaagcgg gccccggggg acaagaaacc ggcgggcaca 120
tcgggtacgt tgaccggccc gagggcgccg accc 154

<210> 4400

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-G3

<400> 4400

cggagaagca tgcaaactc actacacagg aaactgctgt gcacatcgtg tacattgacc 60
acctccacaa caccaacact gaagagttca acattactac catcaatcac atactgttta 120
aaaaacactt gaacagaatc gcagtgtctt accactacaa taacgcacac agcaacattc 180
ttcacgatga tgaccctata tcatgtcata agatcctaaa gagcaac 227

<210> 4401

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-G4

<400> 4401

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tgcgcttctt gcccttttag tgagcgcaac aaatgcgttc attattccac agtgctcact 120
tgctoctagt gccagtattc cacagttcct cccaccagtt acttcaatgg gcttcgaaca 180
tccagccgtg caagcctaca ggctacaact agcgcttgcg gcgagcgcc tacaacaacc 240
aattgccc aa ttgcaacaac aatccttggc acatctaacc ctacaaacca ttgcaacgca 300
acaacaacaa caacagtttc tgccatcact g 331

<210> 4402

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-G5

<400> 4402

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aaaagacatg gaaagagagt tggtggctaa acttctcgtc agcctttgca gtggctcgaca 120
taatttggtg agcaagcaac aactcagtga tggcctttca aatgttcttg cctcattaga 180
agataatcta agtgatgctc caagagccac tgagtacctt ggacgacttc ttgcaagggt 240
tgtggaggaa agcatattgc tcttgcaaga ggtaggtaaa ttgattcaag agagtggaga 300
agaaccaggg tacctaatac aaggcgggtat tgcggctgac atcctagggtg cagtcctgga 360
ttccatataa tca 373

<210> 4403

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-005-Q1-K1-G6

<400> 4403

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cagccaagat ttttgccatc cttgccctcc ttgctctttc agcaagcggt gctaccgcga 120
ctattattcc acaatgctca caacaatacc tctctccggt gacagccgcg agatttgaat 180
acccaactat acaatcctac aggctacaag aggccatcgc agcaagcadc ttacggtcgt 240
tagcattgac cgtccaacaa ccatatgcc tattgcaaca accatcctta atgaatctat 300
atctccaaag aatcgagca caacaactac aacaacagtt gcttccaaca atcaatcaag 360
tagttgcagc gaaccttgct gcttacctnc agcaacaaca atttcttcca ttcaatcaac 420
t 421

<210> 4404

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-G7

<400> 4404

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aatggtgatt ggaaagagtt gagctcgatt gatgaagagg ataccgatag cgccaaccac 120
aatgatgaag acgtcgatga tgacagtgtt gacagcagca ttgaggatgg ggccgaggag 180
gacgggtacg aagagcagtt taatgagcct gaagatgata cggcagtctg aaaatttgac 240
tgagccgggt atccacatca aaaagacaaa gcgcttctcc ttgagtagag tttttgcaca 300
acacattctg tagctcttcg catattccag ttataggaga gggctctggtg tttaaagaaa 360
ctttgtactt tgtttagtgg gaattgttat gttatcgccg ggaatatata tactccctac 420
gtttcttttt 429

<210> 4405

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-G8

<400> 4405

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taccaagata ttagccctcc ttgcgcttct tgccctttta gtgagcgcaa caaatgcgtt 120
cattattcca cagtgtcac ttgtcctag tgccattatt ccacagttcc tcccaccagt 180
tacttcaatg ggcttcgaac atccagccgt gcaagcctac aggctacaac tagcgcttgc 240
ggcgagcgcc ttacaacaac caattgccca attgcaacaa caatccttgg cacatctaac 300
cctacaaacc attgcaacgc aacaacaaca acaacaacag tttctgccat cactgagcca 360
cctagccgtg gtgaaccctg tcacctactt gcaacagcag ctgcttgcac ccaaccact 420
tgctctggcg aacgtagctg ca 442

<210> 4406

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-H1

<400> 4406

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 ccttatgctc cttgggtcttt ctgcaagtgt tgctaccgca accattttcc cacaatgctc 120
 acaagctcct atagcttccc ttcttcccc atacctctca ccagcgggtgt cttcaatgtg 180
 tgaaaaccca attgttcaac cctacaggat ccaacaggca atcgcaacag gcattcttacc 240
 attatcaccc ttgttctctc aacaaccgtc agccctatta cagcagttac ctttgggtcca 300
 tttgggtggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360
 tgcatactct cagcaacatc 380

<210> 4407

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-H10

<400> 4407

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 tagtacaaca gttacctttg gtgcatttat tggcacaaaa catcagggca caacaactac 120
 aacaacttgt gctagcaaac cttgctgcct actctcagca acagcagttt cttccattca 180
 accaactagg ttcatgaac tctgcttctt atttgcaaca acaacaacta ccattcaacc 240
 agctacctgc tggctacccc cagcaatttc tttcattcaa ccaacttgca gcattgaact 300
 cttctgctta tttacaggag caacaactac taccattcag acagctagct ggtgtgagcc 360
 ct 362

<210> 4408

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-H12

<400> 4408

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 aataccactg catagtcttt ttgaagctaa aggtgttgct ggaaatatag ttcattgctgt 120
 ggcaactacc aatgctataa ttgctgggtc aatcgctatc gaggcaatta aagtgtctaa 180

gggtgattat caagattata gaatgacata ttgccttgag catccaacaa ggaagatgct 240
 cttgatgcct gtcgagcctt ttgaacctag taaatcatgt tatgtctgct ctgagacccc 300
 acttgttctg gagggtaata cttagacaac caagcttcac gaagtcattg aaa 353

<210> 4409

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-H2

<400> 4409

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 caatgtcac aagtcctat agcttccctt acttctcaat accttccatc aattatagct 120
 tcaatatgtg aaaaccagc tcttcaacca tataggcttc aacaagcaat cgcagcaagc 180
 aacatacctt gatcgtcctt gatgcttcaa caatcgtcag ccctatcttt ggtgcagtca 240
 ttggtacaaa ccattagggc acaacagctg tagcaactcg tgctacctct gatcaaccaa 300
 gtagctctgg caaacctttc tccctac 327

<210> 4410

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-H3

<400> 4410

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 accattgagc cagctacctg ctgcctaccc tcagcaattt cttccattca accaactggc 180
 agcattgaac tgtcctgctt atttacagca gctacaacta ctaccatgca gccagctagc 240
 tgggtgtgagc cctgctacct tcgtgatata accacagggtg atgccgatct accagcacgc 300
 tgcgcctaac gctggcacgc tattacaact ggcacaattg ctggcattca accaacttgc 360
 tttga 365

<210> 4411

<211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-005-Q1-K1-H4
 <400> 4411

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 aaccattttc ccacaatgct cacaagctcc tatagcttcc tttcttcccc catacctctc 120
 accagcggtyg tcttcagtat gtgaaaaccc aattcttcaa ccctacagga tccaacaggc 180
 aatcgcagca ggcattcttac ctttatcacc cttgttcttc caacaaccgt cagccctatt 240
 acagcagtta cctttgggtgc atttggtggc aaaaaacatc aaggcacaac aactacaaca 300
 acttggtgta ggaaaccttg ctgcctactc tcagcaacag cagtttcttc cattcaacca 360
 actggctgca ttgaactctg cttgctaatt tgcacatcaa ctaccattca gtcagctagc 420
 t 421

<210> 4412
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-H5
 <400> 4412

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 ttgcgcttct tgccctttta gtgagcgcaa caaatgcgtt cattattcca cagtgtcac 120
 ttgctcctag tgccattatt ccacagttcc tcccaccagt tacttcaatg ggcttcgaac 180
 atccagccgt gcaagcctac aggctacaac tagcgcttgc ggcgagcgcc ttacaacaac 240
 caattgcca attgcaacaa caatccttgg cacatctaac cctacaaacc attgcaacgc 300
 aacaacaaca acatcaacag tttctgccat cactgagcca cctagccgtg gtgaaccctg 360
 tcacctactt gcaacagcag ctgcttgca 389

<210> 4413
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-H6

<400> 4413

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aaggctcgacc tgcccaaggc cagtctgtcc atcgccctgt cgcagcccaa gaccaaggcc 120
atttccgtca acgacgccgg ccagggtgtc ctggacgcct acccggtgac cctgcccagag 180
ctggaagacc ggctgcgcac ggagaaggca ctgaatcccg actttccggt gatcgtgcgc 240
ggcgactccg ccgtgcagta ccagaagggtg gtggaagtgc tggacctgct gcgccggctg 300
gaactggccc aggtcgggct ggtcaccggc aagccgaaat aaggggcca ggcgactgtc 360
atgccgcacc acgc 374

<210> 4414

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-G11

<400> 4414

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tttgccatcc ttgccctcct tgctctttca gcaagcggtg ctaccgcgac tattattcca 120
caatgctcac aacaatacct ctctccggtg acagccgcga gatttgaata cccaactata 180
caatcctaca ggctacaaga ggccatcgca gcaagcatct tacggtcggt agcattgacc 240
gtccaacaac catatgccct attgcaacaa ccaccttaa tgaatctata tctccaaaga 300
atcgcagcac aacaactaca acaacagggtg ctccaacaa tcaatcaa 348

<210> 4415

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-E6

<400> 4415

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gtgagagcat ttcttgatcc tagatacaaa cataggatga ttgagctata tatatctaag 120

atgtatgaca ttgataaagc tgagtttagag aagttggtat tcatgaatgt tatcaacgaa 180
 ttattttacat attatttcac agtcatcact gcaaaatcaa ccacaaaaaac ctcaaaaggt 240
 gctagttcaa aagagagcga gtttggtcca cataaaaaata ctttggtgga tgaggatgat 300
 gatgaggttg atcttgatga gttgtatgca acaacaagca aaatagattt gtacatgagt 360
 gaggatctag tgaagggtcaa tgacaatgaa gcaacatttg atg 403

<210> 4416

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-E7

<400> 4416

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 tcggtttcgt ggggtgagcgg atcgagatgg cggcgctcgga tgttgagtac cgctgcttcg 120
 tcggcggcct cgcctgggcc acggacgacc actccctcca caacgccttc agcacctacg 180
 gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggttcg 240
 gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300
 aggagctgga cggccgcaac atcacgtca acgaggccca gtcccgcggc ggccgtggag 360
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<210> 4417

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-E8

<400> 4417

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 gcaaaccgtg cttccttctt gacacagcaa cagttgctgc ctttctacca gcagtttgcg 180
 gctaacccccg caaccctctt acaactacaa caattgttgc ctttgtcca acttgctttg 240
 acagaccgag cggcctccta ccaacaacac atcattggtg gtgccctctt ttagattgct 300

tattagtgtg aattcaataa taaagttttt tggatgatgt atgtggccaa ccagaaataa 360
gaagttacat ttccagattt taatgtg 387

<210> 4418

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-E9

<400> 4418

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gagattgtgc ctccttatgc tccttgggtc ttctgcaagt gctgctacgg cgaccatttt 120
cccgcaatgc tcgcaagctc ctatagcttc ccttcttccc ccgtacctct caccagcggc 180
gtcttcggta tgtgaaaacc caattcttca accctacagg atccaacagg caatcgagc 240
tggcatctta cttttatcac ccttgggtcct ccaacaatca tcagccctat tacaacagtt 300
acctttgggtg catttattgg cacaaaacat cagggcacaa caactacaac aacttgtgct 360
agcaaacctt gctgcctact ctgagcaaca gcagtttggt ccattc 406

<210> 4419

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-F10

<400> 4419

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cagagatatt ttccctcctt atgctccttg ctctttctgc atgtgttgct aacgggacaa 120
ttttccctca atgctcacia gctcctatag cttcccttct tccccatac cttccatcaa 180
tgatagcttc agtatgtgaa aaccagctc ttcagcccta taggctccaa caagcaatcg 240
cagcaagcaa cataccttta tcacccttgg tgtttcaaca atcgccagcc ctatctttgg 300
tgcagtcatt ggtacaaacc attagggcac agcagctgca gcaactcgtg ctacctgtga 360
tca 363

<210> 4420

<211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-005-Q1-K1-F11

 <400> 4420

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 gacgccgccg cggtcaccag gaggtggag gactacgagg cggcgcccaa gctgttccac 120
 tacagcgacg ccggccccaa ctgcgtggcc gtcggcagct cgccgcgctt cagggctctac 180
 gacgtcgact tcggcttcgg acggcccag cgcgtccgca gcggcgggaa caacaagttc 240
 gacggcatgg tgtacctgta ccccgccgc ggcggtgacg gcggcatcga tgtcgagctg 300
 gcgctgcagc cggagcccat gcagaggctg gagaaggacg acgacttctt cctgcgccag 360
 gcggcagcct aagcccgagt cgtc 384

<210> 4421
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-005-Q1-K1-F12

 <400> 4421

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 gaggaggaaa tgaatgtaga caagtcagaa aaagagtctc acatctcaaa actggagcga 120
 cagattacat tatctgagat aaagtacatg gaggagataa agaccatgca agtggagaca 180
 actgaaaaga atgaagcact aacagccaag atgcaagaac acacagacct acagcatgag 240
 aaagatgagt tggaacaaca gttgctggaa gtgaagaagg aattggatgg tgcttaccac 300
 accatagcaa atcaggaaga acaggcttct gtgagggaga taaagtggga cgcttttaag 360
 aag 363

<210> 4422
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-005-Q1-K1-F2

<400> 4422

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taccaagata ttagcccttc ttgcgcttct tgcccttttt gtgagcgcaa caaatgcgtt 120
cattattcca caatgctcac ttgctcctag tgccattata ccacagttcc tccgaccagt 180
tacttcaatg ggcttcgaac acctagctgt gcaagcctac aggctacaac aagcgcttgc 240
ggcgagcgtc ttacaacaac caattaacca attgcaacaa caatccttgg cacatctaac 300
catacaaacc atcgcaacac aacagcaaca acagttccta ccagcactga gccaaactaga 360
tgtggtgaac cctgtcgctt acttgcaaca gcagggtg 397

<210> 4423

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-F3

<400> 4423

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gtatcaatat gctagtgtgt cttgctacat gtgccgttaa cgcgaccgca acacatgcgt 120
gcatacatgc acatagctca cttgttctta ctgcaaacat accataaatt atagcaccaa 180
tatctgaaat cggatctcaa caactatata ggctagaata cgcgatagaa ccaggcatca 240
tacctagagc gttacagcag ccacatcaat catcggcact acaatccttg caacaattga 300
cactacccat catggcacca cagctgcagc aactggtgct accagcaatg aaccaaatag 360
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<210> 4424

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-F4

<400> 4424

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gggatc 66

<210> 4425
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-005-Q1-K1-F5

 <400> 4425

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cccgctcttc tcttccccgt ctgccggctc ccttcttctt cgctgtcgac gacgcggaact   60
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gcgctccgac gagtccggtt acggcgcggt aattaagcag gggaggagcc ggccctgagc   180
ggcgggagtcc aaaatgagtg acgacgtggt atggcactgc atccgccaca accactgcag   240
cttcatgtcc aagatcacia cggggatctt ctgtcgcaac ccctacaacg cgacgggcat   300
ctgcaaccgg agctcctgcc cgcttgccaa cagccgctat gccaccatcc gggatcatga   360
aggtattttc tatctgtata tgaaaaccgg ncgaaagagc tcctctgcca aacaaattat   420
gggagag                                           427
  
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<210> 4426
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-005-Q1-K1-F6

 <400> 4426

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tcgcctccca ccggcctcga tgcggcgaga ggcgaggcc tccaccccg cgcggtctac   180
gccgtgctc tccctcgacg acctctccca cctctacctc ttcaggcagc cggccacgcc   240
ttcgaggcg acgacgacc cctcgctca gccccgcgt ggagccgttc tcttctctc   300
gccgtgccg tccaacgggt cgccggggcc ctggcatgg tggaccctct cgagggagga   360
gaatccccag gagggatcaa cgatgggatg cg                                           392
  
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<210> 4427
 <211> 400

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-005-Q1-K1-F7
 <400> 4427

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 gctccttggt ctttctgcaa gtgctgctac ggcgaccatt ttcccgaat gctcgcaagc 120
 tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg tatgtgaaaa 180
 cccaattctt caaccctaca ggatccaaca ggcaatcaca gctggcatct tacctttatc 240
 acccttggtc ctccaacaat catcagccct attacatcag ttacctttgg tgcatttatt 300
 ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgcta 360
 ctctcagcaa cagcagtttc ttccattcaa ccaactagct 400

<210> 4428
 <211> 295
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-005-Q1-K1-F8
 <400> 4428

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 ccagccctat ctttggggca gtcattgggtc caaaccatca gggcacagca gttgcagcaa 120
 ctggggctac ctgtgatcaa ccaagtactt ttggcaaacc ttttccctta ctttaagaac 180
 acacacaatt tcttccattc aaccaactgt atacactgaa cccgtgggca tattggcagc 240
 aacacctatt accattcagc cagctagcta ctgcatactc tgagcaacaa caact 295

<210> 4429
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-005-Q1-K1-F9
 <400> 4429

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 accggtacca ggcgatctgc ggcttggtcc tccagtccat cctgcagcag cagccgcaaa 120

gcggccaggt cgcggggctg ttggcggcgc agatagcgca gcaactgacg gcgatgtgcg 180
gcctgcagca gccgactcca tgcccctacg ctgctgccgg cgggtgtccc cactgaagaa 240
actatgtgct gtagtatagc cgctggctag ctagctagtt gagtcattta gcggcgatga 300
ttgagtaata atgtgtcacg catcaccatg ggtggcagtg tcagtgtgag caatggacct 360
gaatgaacaa ttgaaaatga aagaaaaaag tatttgggcc 399

<210> 4430

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-G10

<400> 4430

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ccgtatgctc cttgggtcttt ctgcaagtgc tgctaccgca accattttcc cacaatgctc 120
acaagctcct atagcttctt tttttccccc atacctctca ccagcgggtgt cttcagtatg 180
tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgagcaa gcatcttacc 240
tttatcacc cttgttcctt aacaaccgtc agccctatta cagcagttac ctttgggtgca 300
tttgttggca caaaacatca aggcacaaca actacaacaa cttgtgctag gaaaccttgc 360
tgcctactct tagcaacagc agtttctttc at 392

<210> 4431

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-C8

<400> 4431

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tctttctgca agtgtgcta cggcgaccat tttcccgcaa tgctcgcaag ctctatagc 120
ttcccttctt ccccgctacc tctcaccagc ggtgtcttcg gtatgtgaaa acccaattct 180
tcaaccctac aggatccaac aggcaatcgc agctggcatc ttacctttat cacccttgtt 240
cctccaacaa tcatcagccc tattacaaca gttacctttg gtgcatttat tggcacaaaa 300

catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcct actctcagca 360
acagcagttt cttccattca accaactagg ttcattgaac tctgcttctt atttgcaaca 420
acaacaacta ccat 434

<210> 4432
<211> 365
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-005-Q1-K1-D1
<400> 4432

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acggacggct ccgacttttc ttaccgcatg gtcgtcgaat cccggtacca gagggtcgcc 120
gagggcagat cccgcctcgc gcgcctcatc ctctgtcagg cgctgcacct agtggccgga 180
ggcttgcttc tattgctgtc gttgtccaag ggggcgccgg tgaacaagtt cgccgtgctg 240
tccatggccg cgggattcct ggctatagtg gtgggggaat tagggcgaat gcggaccatg 300
tcagtgtgc ttcggctcta cacaagcttg tcatcaattg cggttgcatt ctctgtgacg 360
tgcatt 365

<210> 4433
<211> 376
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-005-Q1-K1-D10
<400> 4433

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ctgcttgccc ttttagtgag cgcaacaaat gcgttcatta ttccacagtg ctcaattgct 120
cctagtgcc aatttccaca gttcctccca ccagttactt caatgggctt cgaacatcca 180
gccgtgcaag cctacaggct acaactagcg cttgcggcga gcgccttaca acaaccaatt 240
gccaattgc aacaacaatc cttggcacat ctaaccctac aaaccattgc aacgcaacaa 300
caacaacaac aacagtttct gccatcactg agccacctag ccgtggtgaa ccctgtcacc 360
tacttgcaac agcagc 376

<210> 4434
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-005-Q1-K1-D11

 <400> 4434

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 cctaacacca atggctacca agatattagc cctncttgcg cttcttgccc ttttagtgag 120
 cgcaacaaaa tgcgtcatta ttccacagtg ctcaattgct cctaattggca ttattccaca 180
 attccttcca acaggtactt caaagggctt cgaacattca accgtgcaag cctacaggct 240
 acaactagcg cttgcggcga acgccttaca acaaccaatt gcccaattgc aacaacaatt 300
 cttggcacat ataaccctac aaaccattgc aacgcaacaa ccaccacaac aacaggttct 360
 ggca 364

<210> 4435
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-005-Q1-K1-D12

 <400> 4435

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 gctgcctacc cccagcaatt tcttccattc aaccaactga cagcattgaa ctctcctgct 180
 tatttacagc agcaacaact actaccattc agccagctag ctggtgtgag ccttgcctacc 240
 ttcttgacac aaccacagtt gttgccgttc taccagcacg ctgcgcctaa cgctggcacc 300
 ctcttacaac tgcaacaatt gctgccattc aaccaacttg ctttgacaaa cccagcagca 360
 ttctaccaac aacca 376

<210> 4436
 <211> 353
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-D3

<400> 4436

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tatccctcct tgcgcttctt gcgctttttg cgagcgcaac aaatgcgttc attattccac 120
aatgctcact tgctccaagt tccattatta cacagttcct cccaccagtt acttcaatgg 180
gcttcgaaca cccagctgtg caagcctata ggctacaaca agcaattgcg gcgagcgtct 240
tacaacaacc aatttcccag ttgcaacaac aatccttggc acatctaaca atacaaacca 300
tcgcaacgca acagcaacaa caattcctac cagcactgag ccacctagcc atg 353

<210> 4437

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-D4

<400> 4437

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caaaatattt tgcttcctta tgctccttgg tctttctgca agtgcgtgcta ccgcaaccat 120
tttgccacaa tgctcacaag ctcttatagc ttcctttctt ccccccatacc tctcaccagc 180
gggtgtcttca gtatgtgaaa acccaattct tcaaccctac aggatccaac aggcaatcgc 240
agcaggcattc ttacctttat cacccttgtt cctccaacaa ccgtcagccc tattacagca 300
gttacctttg gtgcatttgt tggcacataa catcaatgca caacatctac aacaacttgt 360
gctaggaaac cttgctgcct actctc 386

<210> 4438

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-D5

<400> 4438

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tcgctgcgag cgccacctcc acgcatacaa gcgggcggtg cggctgccag ccaccgccgc 120
 cggttcatct accgccgccg gtgcatctgc cacctccggt tcacctgcca cctccggtgc 180
 atctcccacc gccggtccac ctgccgcgcg cgggtccacct gccaccgccg gtccatgtgc 240
 cgccgccggt tcctctgccg ccgccaccat gccactaccc tactcaaccg ccccggcctc 300
 agcctcatcc ccagccacac ccatgcccgt gccaacagcc gcaccaagc ccgtgccagc 360
 tgcagggaac ctgcggcggtt ggcagcacc ccatcctggg ccagtgcgtc gagtttctga 420
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<210> 4439

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-D6

<400> 4439

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 gatgctgctg ccatgtagcc cagcgctccc ccctcggtt caccggcggc ggcggcaacg 120
 acggtgaaaa ctacatcggg tgctagctgc gacggtggtg cgtgccctga tgacgatagg 180
 gcacgcgagg cgcgggcagc ctgtaagcgt tcgatcggcc atgtacggca actatacatc 240
 tttggcaggt ctacaactct ccatcatcct ccgtgggaga gaagatggta atggagtgcg 300
 tgcgtatgta tgtgtatgcc catggcgcg cgcgcggct ctgggcgagt cacagtagat 360
 atgcagtatc atgt 374

<210> 4440

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-D7

<400> 4440

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 accaatctca tcaagagtgg atttatactg atgccctcca gccaccccat ccactcctct 120
 ctacagaaat catgaaatta acaaccatca aaactacact gcgacctatc tgacaccttg 180

actttacctc tcttccacta tcgctacaca cagcccaagt acattgatag cgtttagactc 240
gcctgatatg aagtctctca tactgaatag ctacttaaac attccacacc ctatcatgga 300
tataacaaag aaaatacata catgta 326

<210> 4441
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-D8

<400> 4441

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gctccttggt ctttctgcaa gtgctgtac ggcgaccatt ttcccacaat gtcacaagc 120
tcctatagct tcccttcttc ccccgtaact ctcaccaacg gtgtcttcgg tatgtgaaaa 180
cccaattctt caaccctaca ggatccaaca ggcaatcgca gctggcatct tacctttatc 240
acccttggtc ctccaacaat catcagccct attacagcag ttacctttgg tgcatttatt 300
ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta 360
ctctcagcaa cagcagtttc t 381

<210> 4442
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-D9

<400> 4442

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gggtgtcgatt ataaactatt aatcatgtgt atatttgtgt gttcttgtga ggagagaaac 120
cctcgggacc gatgatgaag aagtgaggcc cgttcgacgt ttgctaaatg ttcggtagaa 180
ggttcgaacc aaaaatcatc gtcgatctcg tgatttcgag tttggtttag ttatggttcg 240
ttacacgtga tgcggaggac aagacccgag ttgatctcaa aatgatgctg gtgaacgaac 300
cagcggaatg gatgatctga tc 322

<210> 4443

<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-E10

<400> 4443

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tgcttttagta tcaagtgttt cttgtacaca gacaggcggc tgcagctgtg gtcaacaaca 180
aagccatgag cagcaacatc atccacaaca acatcatcca caaaaacaac aacatcaacc 240
accaccacaa catcaacagc agcagcaaca acaacaacaa caaggtcaca tgccaccacc 300
aaaacattag caacaacaag aagttcatgt tcaacaacaa caacaacaac cgcagcacca 360
ccaccaacaa caacaacaac agcgccaaca acaacat 397

<210> 4444
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-E11

<400> 4444

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ttatcacctt tgggtgtttca acaatcgcca gccctatctt tgggtgcaatc attggtacaa 180
accatcaagg cacaacaact gcagcaactc gtgctacctg ggatcaacca agtagctctg 240
gcaaaccctt ctcctt 256

<210> 4445
<211> 210
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-E12

<400> 4445

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gagacgatgg ccggcgcgggg ctcttggggc tgcttctcct ccttgagtaa gcgactggaa 120
 cggaacgtgg atccttgtca ctggtggcgc caacggcatc ggcgaggcca tcgttcggct 180
 gttcatggag cactgtgcca aggtctggat 210

<210> 4446

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-005-Q1-K1-E2

<400> 4446

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 gtacaaataa tggcctgtct caaagccgcg cgcgtgcgcg atgtgcccac cctggacgtg 180
 gtggtggccc ccggcctggt ggcggttgcc aaggcgagga gcgcgcggc tgtgggcggc 240
 cggttctcgg tgatcgggca ccgcggcaag gggatgaacg cgctggcgtc ggaggacccg 300
 cgtctgcggg atgtgcgcga gaacacggtc cgctccttca acgacgcgg gcgcttnccc 360
 gtcgactacg tcgag 375

<210> 4447

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-E3

<400> 4447

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 cagatctttg ggagtgtcac ggcacaggat gttgttgaca taataaagtc acaacttaat 180
 agggatgtcg acaagaagct ggtgacggtt ccagaaatcc gtgaaatcgg agagtatgtt 240
 gcagagatca agcttcaccc agacgtgaca gcgcgagtaa ggctgaatgt ctatgcgaaa 300
 tgagctcagc agttacagaa cctcgagtaa tggactttgg cgaagcctga tgtttgccag 360
 agattttgct tgaagtgccca ggtgctgccc tagacatg 398

<210> 4448
 <211> 391
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-005-Q1-K1-C7

<400> 4448

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 gagagcgggc tctccggcga gggccgcaag gccagggact tcgtctgcgg gctcgcgccg 180
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 gtcaagttca gctggatctt tgatagggaa gccgttgttt aggcacttgt tgctaactgt 300
 gatatgtgct cagatcatgt cgctagctgt cagtgtcttt gtcacattgt gtttatgtgt 360
 ttgaaatgcc gtaagagtgt tttttttctg c 391

<210> 4449
 <211> 402
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-005-Q1-K1-B11

<400> 4449

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 acaggatcca acaggcaatc gcagctggca tcttaccttt atcaccttg ttctccaac 180
 aatcatcagc cctattacaa cagttacctt tggatgcat 240
 cacaacaact acaacaactt gtgctagcaa accttgctgc ctactctcag caacagcagt 300
 ttcttccatt caaccaacta ggttcattga actctgcttc ttatttgcaa caacaacaac 360
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<210> 4450
 <211> 323

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-005-Q1-K1-B12
 <400> 4450
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 ctcaagtcaac tagccatggt gaaccctgcc gtctacctac aactactttc atctagcccg 180
 ctgcgggtgg gcaatgcacc tacgtacctt caacaacagt tgctgcaaca aattgtacca 240
 gctctgactc agctagctgt ggcaaaccct gctgcctact tacaacagtt gcttccattc 300
 aaccaactgg ctgtgtcaaa ctc 323

<210> 4451
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-005-Q1-K1-B2
 <400> 4451
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 ctcaagaagt cctatagctg cctttcttcc ccatacctt ccatcaatga ccgctttagt 180
 atgtgaaaac ccagcccttc aaccctacag gatccagcaa gcaatcgcaa caagcaactt 240
 acctttatca cacctgttct ttcaacaatc gccagcccta tctttggtgc agtcattggt 300
 acaaaccatc agggcagaac agttgcagca actcgtgcta ccagtgatca gccaaagtagc 360
 tcttgcaaac ctttncctt actctcagca acaacaattt cttccattca accaactgtc 420
 tatactgaac cct 433

<210> 4452
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-005-Q1-K1-B5

<400> 4452

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attattccac aatgctcact tgctcctagt gccattatc cacagttcct ccctccagtt 180
acttcaatgg gcttcgaaca cccagctgtg caagcctaca ggctacaaca agcgcttgcg 240
gcgagcgtct tacaacaacc aattgcccac ttacaacaac aatccttggc acatctaacc 300
atacaaacca tcgcaacgca acagcaacaa caatttctac cagcactgag ccaactagct 360
gtggtgaacc ctgtcgccta cttgcaacag c 391

<210> 4453

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-B6

<400> 4453

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ttatgtcctt tgctctttct gcatgtgttg ctaacgcgac ctttttctt caatactcac 120
aagctcctat agctgccctt cttcccccat accttccatc aatgaccgct ttagtatgtg 180
aaaaccacgc ctttcaacc tacaggatcc agcaagcaat cgcaacaagc aacttacctt 240
tatcacacct gttctttcaa caatcgccag ccctatcttt ggtgcagtca ttggtacaaa 300
ccatcagggc agaacagttg cagcaactcg tgctaccagt gatcagccaa gtagctctg 359

<210> 4454

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-005-Q1-K1-B7

<400> 4454

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gcacggcttt caccagctga atcgcgtgcc gtcgctgctg tcgttttctg tcccatcgtc 120
acaagtccag taccaaactg gccagcgcca cgctcgacagg cacaacgtct gcgccatgga 180

ggtgaggcac agcgtcgaac ggctggacca ggccgacgtc tacagccctg gggctgggag 240
 gatcacacgc ctcaccagcc acaagttccc cgctctcaac ctctacaga tgagcgcggt 300
 gcgggtagac ctgtaccagg acgccatcat gtcgccgttc tggaacttca acgcccacag 360
 cgccatgtac ggcatcaggg gcagtgcaag ggtccaggtc gncagcgaca acgggaccac 420
 ggtgttcga 429

<210> 4455

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-B8

<400> 4455

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 tcgtcgtctt ttctgttccc atcgtcacia gtccattacc aaacttgcca ccgcgacctc 180
 tacatgcaca acctctgcac catgtaagtg aggcacagtt tcaaactgct ggaccaagcc 240
 gacgtctaca gccctgagcc taccatgatc acacgcctca ccagccacaa cttccccgtt 300
 ctcaacctcg tacagatgag cacagtgcac gtagacctgt accatgacgc catcatgtct 360
 ccgttctaga acttca 376

<210> 4456

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-B9

<400> 4456

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 gggtaaccaag atcgtatctg gtcttgctg aagtgccta tgtctacatg cacacagtgc 120
 cttcatgatt ccacaatgct cacttgctcg tagtgccatt ctaccagagc ttgtccgact 180
 agatacttaa atgggcttct aacacctagc tgtgcaagac tacaggctac aacaagcgct 240
 tgccgcgagc gtgttacaac aaccagttaa gcaattgctg cgaccattat tggcacattt 300

aaccatagaa gccatcgag cacaacagca acaacagttc ctaccagtac tgagccaact 360
agatgtggtg 370

<210> 4457

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-005-Q1-K1-C1

<400> 4457

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ggcgatgatt gagtaataat gtgtcacgca tcaccatggg tggcagtgtc agtgtgagca 120
atgacctgaa tgaacaattg aatgaaaag aaaaagtat tgttccaaaa aaaattttaa 180
aaaaaaaaa aaaataaaaa aaaaataaaa acaaaaaaat aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaa aaaaaaaaaat aaaaaatata agaaaaaaaa aaaataaaaa taaaataaaa 360
taaaattttt taaaaaaaaa aaaaaataaa aanttaatat aaataaaaaa aaaaaagggg 420
gg 422

<210> 4458

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-C11

<400> 4458

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gatttttgcc ctcttgccc tccttgctct ttcagcaagc gctgctacct cgacttttat 120
tccacaatgc tcacaacaat acctctctcc ggtgacagcc gcgggatttc aatacccaac 180
tatacaatcc tacatggtac aagaggccat ccaagcaagc atcttacggt cattagcatt 240
aaccctcaa caaccatatg ctctattgca acagccatcc ttagtgcac tgtatctcca 300
aagaatcgcg gcacaacaac tacaacaaca gttgctacca acaatcaatc aagtagttgc 360

agcgaacctt gct

373

<210> 4459

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-C12

<400> 4459

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gagctgtgca ttatgcttct tgagtgttgc agtcaggaga gaacatatct tcgttattat 120
gggctgctag gacagcgttt ttgcatgac aataaagtgt accaagagaa cttcgaaaaa 180
tgctttgtgc aacaatattc gatgattcat cgtcttgaaa caaacaagtt gaggaatgtt 240
gccaagttct ttgcacattt ggtggggact gatgctctcc cttggcatgt tttggcttac 300
atcaagttga cagaagaaga cccaacatca tcttctcgta ttttcataaa aatattggtc 360
ccagaatta 369

<210> 4460

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-C2

<400> 4460

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cttgggtcttt ctgcaagtgc tgctaccgca accattttcc cacaatgctc acaagctcct 120
atagcttcct ttcttcccc atacctctca ccagcgggtg cttcagtatg tgaaaaccca 180
attcttcaac cctacaggat ccaacaggca atcgagcag gcatcttacc tttatcacc 240
ttgttctcc aacaaccgtc agccctatta cagcagttac ctttggtgca tttgttggca 300
caaaacatca aggcacaaca actacaacaa cttgtgctag gaaaccttgc tgcctactct 360
cagcaacagc agtttcttcc attcaaccaa ctggctgcat tgaactctgc tgcttattgc 420
aacaacaact 430

<210> 4461

<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-C3

<400> 4461

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aggcctatcg ggacaacgaa gtgctcagga tacttggttg cttcaagtta aacccttcg 120
agcatcttaa gttgtctttt gattcatcac cagatgaggt gaaaaagcaa tataggaagt 180
tgtcattgct ggtccatccg gataaatgca agcatcctca ggcacaagaa gcttttgag 240
ctctggcgaa agcacaacag ctctgcttg atccacagga aagaggctac attcttgacc 300
aagttactgc tgcaaaagaa gaattgaggg caaagcggaa aaaggagctg aagtaagaca 360
gtgcg 365

<210> 4462
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-C4

<400> 4462

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actctgaggt tgtgcctact gttgggctg gccagcttga ccttggttggt agctgccact 120
gccagcagga gtaagcacag ccagctcatg cttcctaccg ttcttgagct ctgcagcttc 180
ctccatggag atggcatacg agctggcgat gacggcggcc ggcaagtcgc tcaggacgga 240
gttcttcccg gcgacgtggc tgaccatggt gtcagggttc gtctcgaagg cgatgtactg 300
gaagccttct ccctgcgcct tgggtggcgac gaggtagccc tggggtacga tgagcagctg 360
ccccgcacgg agcacgtcgt cgaacaccgt ggtccc 396

<210> 4463
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-C5

<400> 4463

gaccaactag caacatagaa agcacaatag tgtaccaaca atggcagcca aaatatggcg 60

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ctcacaagct cctatagctg cccttcttcc cccatacctc tcaccagcgg agtcttcaat 180

gtgtgaaacc ccaattgttc aaccctacag gatccaacat gcaatcgcaa cacgcatatt 240

accattatca ctcttggttc tccaacaacc gtcagcccta ttacagcagt tacctttggt 300

acatttggtg gcacaaaaca tccaggcaca acaactacta caacttgtgc tagcaaacct 360

tgctgaatac tcttagcaac atcacgttct tcca 394

<210> 4464

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-C6

<400> 4464

gcagaacgaa ggggtggaccg gcctgttccg cggcaacgcc gtcaacgtcc tgcgcggtggc 60

tccgagcaag gctatcgagc atttcaccta tgacacggcc aagaagttcc taacccccaa 120

gggcgacgag cgcaccaaga tcccgatccc cactccgctg gttgccggag ctctagccgg 180

attcgctca accttgggca cctaccccat ggagctgac aagaccaggg tcaccatcga 240

gaaggacgta tacgacaacg tcgagcacgc gttcgtgaag atcctacgcy acgagggccc 300

gtcggagctg taccgtgggc tgacaccag cctgatcggc gtggtgccgt acgc 354

<210> 4465

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-B10

<400> 4465

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ccgggtattt gacttggttg acacgaaaca caatggaatt ctcgagtttg aggaatttgc 120

tcgagccctt tctgtgttcc atccgagtgc accaatcgat ttcaaaattg attttgcttt 180

caaattgtat gatctcaagc aacaaggttt cattgaaaag caggagggtca agcaaattggt 240
 ggctcgcaaca cttgctgaat caggaatgaa tctttcagat gatattattg aaagcattat 300
 tgataagaca tttgaaggag cagatacaaa gcacgatggc aaaattgata aagaggaatg 360
 gcgcaacctt gtcttgaggc atccatctcc tgtaaaaa 398

<210> 4466
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-004-Q1-K1-H4
 <400> 4466

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 tgcattgtgtt gctaacgcga ccatttttcc tcaataactca caagctccta tagctgcctt 120
 tcttccccca taccttccat caatgaccgc ttcagtttgt gaaaaccag cccttcaacc 180
 ctacaggctc caacaagcaa tcgcaacaag caacttacct ttatcaccct tgttctttca 240
 acaatcgcca gccctatctt tgggtgcagtc attggtacaa accatcaggg cacaacagct 300
 gcaacaactc gtgctaccag tgatcagcca agtagctctg gcaaaccctt ctccctactc 360
 tcagcaacaa caattntctt cattcaacca actgtctaca ctgaaccctg ctgcttattt 420
 acaacaacaa caac 434

<210> 4467
 <211> 346
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-004-Q1-K1-H6
 <400> 4467

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 tgcttcctta tgctccttgg tctttctgca agtgcgtgcta ccgcaaccat tttcccacaa 120
 tgctcacaag ctccctatagc ttcctttctt ccccatacc tctcaccagc ggtgtcttca 180
 gtatgtgaaa acccaattct tcaaccctac aggatccaac aggcaatcgc agcaggcatc 240

ttacctttat cacccttggt cctncaacaa ccgtcagccc tattacagca gttacctttg 300
gtgcattttg tggcacaaaa catcaaggca caacaactac aacaac 346

<210> 4468

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-H8

<400> 4468

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cacaacatca ccaacatctc ctaatttggt aataaatcac taccattaca ccaacgatct 120
actgcaacat tccctagaac agaaacaaaa ctgctatttc cgtgaaaccc ctgaacaatg 180
attgctacaa gacacgagca catgctacaa cggcacctct atgcaaaagt ggcgatgatc 240
c 241

<210> 4469

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-H9

<400> 4469

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ggcccgaccc gccccccgcc tcgtcctggt cgcgctcccc tttccccgcg tgtgcgttgg 120
ccggctgggt ccggatgagg ggggttgctgt cgggtggaggc cgctggcgcg gcgtcgctcgt 180
cggcctcggc ctcggtgctc aacggcgccg tggactgggt gcgcgacgtc aacgagtcgc 240
cgctgtggca ggaccgcac ttccacgcgc tcgtcgtgct ctacggcatc gtctccgacg 300
acgcgctggt ccaattgatc agaatcgagt gcagggtgcc agaatatggg tgga 354

<210> 4470

<211> 364

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-005-Q1-K1-A1

<400> 4470

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agggtgttgc tcgttgccct cgctctcctg gctctcgctg cgagcgccac ctccacgcat 120
acaagcggcg gctgcggctg ccagccaccg ccgcccgttc atctaccgcc gccggtgcat 180
ctgccacctc cggttcacct gccacctccg gtgcatctcc caccgccggt ccacctgccg 240
ccgcccgttc acctgccacc gncgggtccat gtgccgncgc cggttcatct gccgncgnca 300
ccatgccact acctactca accgncccg cctcagcctc atccccagcc acacccatgc 360
ccgt 364

<210> 4471

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-A10

<400> 4471

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ccaagatatt ttccctcctt atgctccttg ctctttctgc atgtgttgct aacgcgacaa 120
ttttccctca atgctcacia gctcctatag cttcccttct tccccatac cttccatcaa 180
tgatagcttc agtatgtgaa aaccagctc ttcagcccta taggctccaa caagcaatcg 240
cagcaagcaa cataccttta tcacccttgt tgtttcaaca atcgccagcc ctatcttt 298

<210> 4472

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-A11

<400> 4472

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aagatacttt cctccttat gctccttgct ctttctgcat gtgttgctaa cgcgacaatt 120
ttccctcaat gtcacaagc tcctatagct tcccttcttc ccccatacct tccatcaatg 180
atagcttcag tatgtgaaaa ccagctctt caaccctata ggctccaaca agcaatcgca 240

gcaagcaaca tacctttatc acccttgttt caacaatcgc cagccctatc tttggtgcag 300
tcattggtac aaaccatcaa agcacagcag ctgcagcaac tcgtgcta 348

<210> 4473

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-A12

<400> 4473

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atggagatga ctgcggacgg caagcagggc gcaaggccca gtatcttgaa aggttgggga 120
gccgcgaagt ctgaagtctg aacggtgaaa ggctggctga cgctgtgggg aggaaggggc 180
agggacgtgc tgttggtttt attatattgg tatttatgtt attatatatg tggtagcagc 240
agcgtggaac cgcattaata atggggacct taaccacctc tattttactg tcgttgcttt 300
gttgctgcgt gctaggttgt attctgaagt ggattcctca ataccgcata ccgtactgct 360
acgcctgttg actttggtac aattgattga tcgttgacca cttggtatgg aattgccgac 420
catggtttc 429

<210> 4474

<211> 296

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-005-Q1-K1-A2

<400> 4474

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cacttgctcc tagtgccatt ataccacagt tcctccgacc agttacttca atgggcttcg 120
aacacctagc tgtgcaagcc tacaggctac aacaagcgct tgcggcgagc gtcttacaac 180
aaccaattaa ccaattgcaa caacaatcct tggcacatct aaccatacaa accatcgcaa 240
cacaacagca acaacagttc ctaccagcac tgagccaact agatgtggtg aaccct 296

<210> 4475

<211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-005-Q1-K1-A3

<400> 4475

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ttccaagaca ttacaatgt ggataagttc gtgaggagcc tggatggtgt tgcgaagta 120
atagaggata tacctgatga agtgagtgtc aagaagccag cagtcacag agtaccgaac 180
cgtgtgactg aaagcttcat cacaggcacc atccagccca tcttccaaa aaacaagtac 240
ttaagactag cggtcatttt ctcttccgta agtttaaggc caaaggagac gaacaacaag 300
gacatggacg caactgcttg ccttgcatg ttcgggtggc tcgagctgaa gcacgaatat 360
tctgaggtgg ccagaanaat gcntgatagg cttcaagaat taagcaagaa gtc 413
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<210> 4476
 <211> 400
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-005-Q1-K1-A4

<400> 4476

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ggtcacaaca gctgcagcaa ctctgtctac ctctgatcaa ccaagtagct ctggcaaacc 180
tttctcccta ctctcagcaa caacaatttc ttccattcaa ccaactgtct aactgaacc 240
ctgctgctta tttgcagcaa caactattac catttagcca gctagctact gctactctc 300
agcaacaaca acttcttcca ttttaaccaat tggccgcact gaaccccgct gcttatttgc 360
agcagcanat actactacca tntagccagc tagctgcagc 400
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<210> 4477
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-A5

<400> 4477

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agggttttcta tcaaggccat caatctgcta aaaacagata aaaacaatga atcaactcat 120
tcacacaaac tgataagagt cacaatcatc atagtcaaga gatcactagt gccttgctga 180
tctggatcca ttaacgctca cagacagtat tacaggattc tcttcggatc ccctaatacat 240
ttgtacaaaa gcaataacag ttcatttgac agagtccacc ctgacgaggt tcctgggtaca 300
ccaaggaagg aacttagcat ttcagctggt cagatgcttc atttatacta ccaaacgaac 360
aattcacaat ggccacatta taacaagcta cttttccatc taactctcca agaaaca 417

<210> 4478

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-A6

<400> 4478

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tacctttggt gcatttgctg gcacaaaaca tcaaggcaca acaactacaa caacttggtg 120
taggaaacct tgctgcctac tctcagcaac agcagtttct tacattcaac caactggctg 180
cattgaactc tgctgcttat ttgcaacaac aactaccatt cagtcagcta gctgctgct 240
acccccagca atgtcttcca ttcaaccaac tggcagcatt gaactctgct gcttatttac 300
aacagcaaca gctaccacca ttcagacagc tagctgatgt gagccctggt gccttcttga 360
cacaacaaca g 371

<210> 4479

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-A7

<400> 4479

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 tcgcaagctc ctatagcttc ccttcttccc cegtacctct caccagcggg gtcttcggta 180
 tgtgaaaacc caattcttca accctacagg atccaacagg caatcacagc tggcatctta 240
 cctttatcac ccttggttct ccaacaatca tcagccctat tacatcagtt acctttgggtg 300
 catttattgg cacaaaacat cagggcacaa caactacaac aacttgtgct agcaaactt 360
 gctgcctact ctcagcaaca gcagtttctt ccattcaacc aactagctgc attgaactct 420
 gcttc 425

<210> 4480

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-005-Q1-K1-A8

<400> 4480

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 ctcacaggct ctccgccgtt ccccaacgcg ctttccccgg cgccatggcc aggctggcgc 120
 tagcgctcct cctgctgctg gccgtggcgg catccgcgtg ggccggcgcc ggcgcgagcc 180
 acctcgatct gggcctgggc ttcctctcct ccggggaccg ccggcgggaa tgccgcggca 240
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 tggagtccca ccgcgcgcgc ctctacggcg gcggcggcgg cgccgggtac atcagctacg 360
 gcgcgctgcy gcgggacaac gtgccttggc tccgncgcgg cgccagctac tacaactggc 420
 ggcccgggg 429

<210> 4481

<211> 328

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-005-Q1-K1-A9

<400> 4481

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ctgaaagggc ctgtacattt gttggaaccg ctgcatatgt accacctgag gtcctgaact 180
ctgccccagc aaccttttga aatgatttat gggcattggg atgcacactg taccaaactgc 240
tntctggctc ttcgccattt aaagatgcta gtgagggtgg aaatttccag agaattcattg 300
caagggacct caaatttcca gagtattt 328

<210> 4482

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-005-Q1-K1-B1

<400> 4482

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atactttccc tacttatgct ccttgctctt tctgcatgtg ttgctaacgc gacaattttc 120
cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttac atcaatgata 180
gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgagca 240
agcaacatac ctttatcacc cttgggttcaa caatcgccag ccctatcttt ggagcagtca 300
ttggtacaaa ccatcaatgc acagcagctg cagcaactag tgctacctgt gatcaaccaa 360
gtagctctgg caaacctttc tcctactat gagcaacaac aatttcttnc attcaaccaa 420
ctatctacac t 431

<210> 4483

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-H2

<400> 4483

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gatatgttgc ttccttaagc tgcctgggcc ttcttcaagt tctgttacc gcaaccattt 120
tc 122

<210> 4484
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-E6

<400> 4484

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cttagagatg caaagttgca attcaaagat attgatgagg ttattcttgt tgggtggatca 60
actagaatac cagctgttca ggagcttgct aagaaaatga caggaaagga cccaatgtg 120
acagtcaacc ctgatgaggt tgttgactt ggagcagctg tgcaggctgg agtactgtct 180
ggcgatgtta gcgacattgt acttcttgat gtgacccct tgtccctagg tttggagaca 240
ctgggtggtg tcatgacca aattatcca acgaatacaa ccttggttaa cttaaatcc 300
gaaggtttct taacagcaac ttattgcaa actaatgttg aaatcaatgg tcttcaagga 360
gaaagaaaag ttggtagaaa ccaccag 387
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<210> 4485
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-E8

<400> 4485

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ctccatgaag gagatcaaatt agttgtttgt ggcatgcagg gacccattgt gacaactgtc 60
agggtttgt taacaccaca ccaatgaga gagcttcgag ttaagggcac ctacatacat 120
cataaggaga tcagagctgc acaaggagtc aaaatatctg ctgaggtct cgaacatgca 180
attgcaggga cagcccttta cgtgttagga cctgatgatg atttagacaa actgaatgaa 240
gctgttatgg aagagatgac acgggttagg agccggattg acaggagtgg tgaagggtgc 300
tatgtacagg catctacct tgggtctttg gaagctctca ctgagttctt gaagagccct 360
gctgtgaata ttcccttctg tgatttcagt atagggccag tgcataagaa ggatgttatg 420
aaggctaattg tcatgct 437
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<210> 4486
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-E9

<400> 4486

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catggcggtc gggctcatgt acgcctactt tgcgacggtag atggacaaag cgcggagggt 120
ccgcgccggc gccggagcgc tggcggcgcc gctcgccgtg gggctcctgg cgggggctaa 180
cgtgctggcc tgcggcgcg c tggaggcgc cgtgatgaat ccggcgcgcg cgttcggggc 240
cgccgtcgtg ggctcccgtc gctggagaca ccaatgggtg tactgggtgg ggcccatggt 300
cggcgccggc ctctccggcg tcgtctacga gcacctcgtc 340

<210> 4487

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-004-Q1-K1-F10

<400> 4487

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tggagtgtg ctacggcgac cattttcccg caatgctcgc aagctcctat agcttcctt 120
cttccccgt acctctcacc agcgggtgtc tcggtatgtg aaaaccccaa ttcttcaacc 180
ctacaggatc caacaggcaa tcgcagctgg catcttacct ttatcacctt tgttctcca 240
acaatcatca gccctattac aacagttacc tttggtgcan ttattggcac anaacatcag 300
ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct gcctactctc agcaacagca 360
gtttctt 367

<210> 4488

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-F11

<400> 4488

ccaaaccacc aatccggttg cattctttgg gtttgctcac agcgcacaca aaggcatgtt 60

actgctggga atgggtggctg gcaactattag cgtctccggc tcttgagtga tctccaaggg 120
aagtgaagtg atgggggagt gcgaggacgg caaggagtag aggtgctggg aggagctgct 180
gccggacgcg ctgggcctca tcttccgcaa cctgccgctg caggaggtgc tcaccgtcct 240
gccgcgggtg tgcaagtcct gggggcggat ggtggccggc ccctactgct ggcaggagat 300
cgacatcgag gagtggagcc. agcagcaggg caagcccgag cagatcgccc gcatggtcga 360
gctactcgt 369

<210> 4489

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-F12

<400> 4489

atggacgcgt tcttctcggc ctctccgcg tcggcgccct acggctacgg cgccggcgga 60
tggagctacg actcgctcaa gaacttcgc cagatcaccc ctgccgtcca gaccgcgca 120
attagcattt cgtatttttt taaaaatata tatcagtcgc tggtttcgtg cgttccagaa 180
attctcctgc gggttgcgtg tagctgatgc gtaattccct gacgtaatct atgattcgcg 240
cgcgctcgtg tccttgcat tagaactgca actgtgcgga tgccaccgat tcgattgatt 300
cgtcacttta agaacatgat c 321

<210> 4490

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-F2

<400> 4490

aacaacaaga agttcatggt caacaacatc aacaacaacc gcagcaccaa caacaacagc 60
aacaacaaca gcaccaacaa caacatcaat gtgaaggcca acaacaacat caccaacaat 120
cacaaggcca tgtgcaacaa cacgaacaga gccatgagca acaccaagga cagagccatg 180
agcaacaaca tcaacaacaa ttccagggtc atgacaagca gcaacaacca caacagcctc 240
agcaatatca gcagggccag gaaaaatcac aacagcaaca atgtcattgc caggagcagc 300

aacagactac aaggtgcagc tataactact atagcagtag ctc

343

<210> 4491

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-004-Q1-K1-F4

<400> 4491

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aacgtcttcc atttaaccaa ttggccgcac tgaacctcgc tgcttatttg cagcagcaaa 120

tattactacc atttagccag cttagctgcag caagccgtgc ttccttcttg acacagcaac 180

agttgctgcc tttctaccag cagtttgccg ctaaccccgc aacctcttta caactacaac 240

aattgttgcc ctttgtccaa cttgctttga canaccgcgc agncttctac caacacacat 300

cattgggggg ggcctctttt aaaatgggta ataagtggaa atcaataata aaagtttttg 360

gatgatgtat gtggccaacc agaaattaga gttacatttc cagattct 408

<210> 4492

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-F6

<400> 4492

gtgcgcttct tacaacaaca gcaattgctg ccatttagcc aactcgcttt gacgaatcgc 60

taccacotta ttgcatcagc ccaccattgg tggtagcatc ttctagattt tttatgcttt 120

atactgtaat aataaatttc tcatactgat atgtgcaact tctcagtaat aaaagattag 180

agatctatat tttaagttc 199

<210> 4493

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-F8

<400> 4493

actagccatg gtgaaccctg cgcctacct acaacagcaa caactgcttt catctagccc 60
gctcgtgtg gccaatgcac ctacatacct gcaacaagaa ttgttgcaac agattgtacc 120
agctctaact cagctagctg tggcaaacc tttgcctac ttgcaacagc tgcttccatt 180
caaccaacta actatgtcga actctgttgc gtacctacaa cagcgacaac agttacttaa 240
tccattggca gtggctaacc cattggctgc tgccttcta cagcaggcac aaatggctgc 300
aatccaaccg gttcttttgg atgaatccgg ccttggcagg aacaacccaa tgggtgaggt 360
tgccatcttt tagattacat atgagatgta ctcgataatg gtgccctcat accggcatgt 420
gtttcctaga aataa 435

<210> 4494
<211> 237
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-004-Q1-K1-G10
<400> 4494

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ttccttcccc ttaaccttat ccttccttcc aaaattcccc ctgccatttg attcaacccc 120
ccttaaccaa atccttatca cccgaattta acaataactt ttttttttct tccatgctta 180
attccaaaac cattgtttta cgggtgtccc ttttaagaa tccaagctaa ctacccc 237

<210> 4495
<211> 191
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-004-Q1-K1-G11
<400> 4495

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gagttttgag catttggggg cggggggcaa gagagagaga gagagccatg gcggcagacc 120
agcagccgca attgcaggag gagatgaacg attctgccat acgttgcatc aatgaccgtt 180
taagtttgcg a 191

<210> 4496
 <211> 373
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-004-Q1-K1-G2

<400> 4496

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 tcgccagccc ggcttcacc tgctccgtcc tggcggttctc cgggagccgc aagcgccctcg 120
 tgaacgggac gctgctgcgc tcgacgcggt gccacctctc gttcttgctc tncncttgc 180
 tgtgctgccc gttgatgacc agcaagttgc cgtcctncac ctcgaccttg acctnctnct 240
 tctttacgca ngggaggtcg gccttgaaca cgtgcgcctc gggcgctctc ttccagtcga 300
 tgcccgcgat ggcgaaggcg gcggtgtcac ggtcgcctga cgacgcgacg acggacggga 360
 cgagggaccg gaa 373

<210> 4497
 <211> 359
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-004-Q1-K1-G4

<400> 4497

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 ctgccttatg ctcccttggtc tttctgcaag tggtgctacc gcaaccattt tcccacaatg 120
 ctcacaagct cctatagctt cccttcttcc ccatacctc tcaccagcgg tgtcttcaat 180
 gtgtgaaacc ccaattgttc aaccctacag gatccaacag gcaatcgcaa caggcatctt 240
 accattatca cctnngttcc tncaacaacc gtcagcccta ttacagcagt tacctttggt 300
 ccatttggtg gcccaaacca tcagggccca acacctcaa cacctgggcc taccaaacc 359

<210> 4498
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-G6

<400> 4498

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gcctacttgc aacagctgct tccattcaac caactgactg tgtegaactc tgctgcgtac 120
ctacaacagc gacaacagtt acttaatcca ctagcgggtgg ctaaccatt ggtecgctgcc 180
ttcctacagc agcaacaatt gctgccatac aaccagttct ctttgatgaa ccctgccttg 240
ttgtggcagc aacccatcgt tggagggtgcc atcttttaga ttacatatga gatgtactcg 300
ataatgggtgc cctcatagcg gcatgtgttt cctagaaata atcaatatat tgattgagat 360
ttatctcgat ata 373

<210> 4499

<211> 122

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-004-Q1-K1-G9

<400> 4499

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cgncgccgag cagccaattc caaagcgtga caaagccgct gcaaattgatt caacatacct 120
ta 122

<210> 4500

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-H10

<400> 4500

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cagccaagat ttttgcgtc cttgccctcc ttgctctttc agcaagtgtt gctaccgcga 120
ctattattcc acaatgctca caacaatacc tctctccagt gatagccgcg agatttgaat 180
accatctat acaatcctac aggctacaag aggccatcac agcaagcatc ttacggtcgt 240
tagcattgac cgtccaacaa ccatatgcc tattgcaaca accatcctta gtgaatctgt 300

atctccaaag aatcacagca caacaactac aacaacgggt gcttccaaca attaatc 357

<210> 4501

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-E4

<400> 4501

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cttgcgcttc ttgcgctttt tgcgagcgca acaaatgcgt tcattattcc acaatgctca 120

cttgcctcaa gttccattat tacacagtgc ctcccaccag ttacttcaat gggcttcgaa 180

caccagctg tgcaagccta taggctacaa caagcaattg cggcgagcgt cttacaacaa 240

ccaatttccc agttgcaaca acaatccttg gcacatctaa caatacaaac catcgcaacg 300

caacagcacc accatttcct accagaattg acccacttac ccttggggaa ccttgccgct 360

aactggcaca agaagtgggt ggcttaaacc caattgggt 399

<210> 4502

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-H11

<400> 4502

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acgggatatg tgctatgagt acgctaattg ctatgtctgc atgtgttgct aaggcgacaa 120

tgatatctga atggctacta tcaccgatag ctaacgttct actgtcataa ctgcgatgaa 180

cgagagcatc attatgaggg aaccgagatg ttaagacgta tcagatctaa caagctgccg 240

tagcgggtag catagcttca taa 263

<210> 4503

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-C12

<400> 4503

eggacgcgtg ggcggacgcg tggggtcaca accctcgacc tgccccctac tccaactagt 60
ggaggcgccg atccatcagg ttctgatcga ttctttctgcc ccgatccgca gcggcaagcg 120
gagatgaact gcgagacctg tcagctgaaa gaactggagc tggaactgac ggagatcagg 180
gatgttctgc gctgtatctt gcacaccata ttcttgcata gaaccctcag cctgggtcgc 240
cccaaagatg ttgactgtga tttcctcgat attacttatg tacaatgtgg tctaccggaa 300
ctagaaacgg aagttgacga aaagatagac cagttcagtg catgggtgga gaaaca 356

<210> 4504

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-C2

<400> 4504

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tgatcctaga gcaacagctg ctgtcctggc tgatatggat tccattgcga aggaagcaca 120
gctgagaggt ttcgagtttg ctaaagcggc tactcttggt gctgagccgt tcacattgga 180
taatggcctt ctcaccccaa cattcaaggt caagaggccg caagccaaag catactttgc 240
aaaagagatc tcagacatgt atgcacggtt gctagagaca gagttagcta ggtcgaaatt 300
gtaacttggt cggtatcagg aaaaaggccc atcatacaag cgtacaggag attggattct 360
gcatttttta tttccactca cgaaataagt agtaaaatct tttactgata cgggaaatac 420
ggatcatgcc atgctccgg 439

<210> 4505

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-C4

<400> 4505

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gctggtgtga gccctgctac cttcttgata caaccacagt tggtgccgtt ctaccagcac 120

gctgcgcta acgctggcac cctcttaca ctgcaacaat tgctgccatt caaccaactt 180
gctttgacaa acccagcagc gttctaccaa caacccatca ttgggtgggtgc cctcttttag 240
atttcttatg agttatagtt caataataaa gttttttgtc tgatgtttgt ggcttcccag 300
aaataagaag gtacatttct agatttctt 328

<210> 4506

<211> 355

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-004-Q1-K1-C6

<400> 4506

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gagttgcaaa caatgaacgt gcagcagccc gctgatgttg ccggaccag cgaggggggtg 120
gcggcgatct ccaaaggggg gaaggtaggg ccgaaccggt gcagcgctg cacgaagagg 180
gttggaacta ctggattcaa ctgccggtgt gggaacttgt actgcgcaact tgaccgctac 240
tacgacaagc acgactgcga gttcgactac cggactgctg tcagtgcgc cattgccaag 300
gctaatacng cggatgaaggc agacaagctc gacatgatct atgggggggtt cccta 355

<210> 4507

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-C8

<400> 4507

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ctaccaagat attagccctc cttgcgcttc ttgccctttt tgtgagcgca acaaatgcgt 120
tcattattcc acaatgctca cttgtccta gtgccattat accacagttc ctccgaccag 180
ttacttcaat gggcttcgaa cacctagctg tgcaagccta caggctacaa caagcgcttg 240
cggcgagcgt cttacaacaa ccaattaacc aattgcaaca acaatccttg gcacatctaa 300
ccatacaaac catcgcaaca caacagcaac aacagttcct accagcactg agccaactag 360
atgtggtgaa ccctgtcgcc tacttgcaac agcaggtgct tgcattccaac ccacttgctc 420

tggcaaacgt

430

<210> 4508

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-C9

<400> 4508

tgaaaatcca attcttctac cctacaggat ccaacaggca atcgcagcag gcaggttagc 60
tttatcacc ttgttctctc aacaatcatc agccctatta cagcagttac ctttggtgca 120
tttattggca caaaacatca gggcacaaca actacaacaa ctogtgctag caaaccttgc 180
tgctactct cagcaacagc agttacctt ggtgcatttg ttggcacaaa acatcagggc 240
acaacaacta caacaactcg tgctagcaaa ctttgctgcc tactctcagc aacaacagtt 300
tctgccattc aaccaactag ctgcattgaa ctctgctgct tatttgcagc accaacaact 360
actaccattc agccagctag ctgctgccta cccccggcaa tttcttccat tcaaccaact 420

<210> 4509

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-D10

<400> 4509

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tcatgatcat catcatcacc gtcgtcatag ccatggccgc gcgtcaccac gccccgcacc 120
tactcgcgat gtcctatgctc tcagcggcgg ccggcttctt ctccgtggcc tccgacgagc 180
gcgacctcga cgcagccaac ccgctcgcgg tcgcggctgc ggagcccgac gctggccgaa 240
acaacgacaa caacaacct tccgagccta actactactg ctaccat 287

<210> 4510

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-D11

<400> 4510

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cgaacatcca gccgtgcaag cctacaggct acaactagcg cttgcggcga ggccttaca 120
acaaccaatt gcccaattgc aacaacaatc cttggcacat ctaaccctac aaaccactgc 180
aacgcaacaa caacaacaac aacagtttct gccatcactg agccacctag ccgtgggtgaa 240
ccctgtcacc tacttgcaac agcagctgct tgcattccaa ccacttgctc tggcgaacgt 300
agctgcatac cagcaacaac aacagctgca acagtttatg ccagtgtcga gtcaactagc 360
catgggtgaac cctgtccggt tacctacaac tactttc 397

<210> 4511

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-D12

<400> 4511

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gtccttgggt ctttctgcaa gtgctgctac cgcaaccatt ttcccacaat gtcacaagc 120
tcctatagct tcctttcttc ccccatacct ctcaccagcg gtgtcttcag tatgtgaaaa 180
ccaattctt caaccctaca ggatccaaca ggcaatcgca gcaagcatct tacctttatc 240
acccttggtc cttcaacaac cggcaaccct attacagcag ttacctttgg tgcaattggt 300
ggcacaaaac atcaaggcac aacaacttca acaacttggg ctaagaaacc ttgctggcta 360
ctctcagcaa cagcagtttc tttc 384

<210> 4512

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-D2

<400> 4512

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gctgacgagg ttgacctcg gaacctcatg gcgtacgatc cgtcgcatca cgtcgccacc 120

gcctccaggg aggagctgag acaggagtgc ctgcggaagg gtacagagct ggcgcaggcg 180
gtggccgacg tcctcttcgc gctgcggccc aacgaggacc gcgacggccc cattatccac 240
ctccccgcgc ccaccttcag actccccggg gagaagcatc tacccaagcc caagccaccg 300
accaagtggg aagctgttgc aaaggcgaaa ggaattacca agcgcaaaaa gaacaagcgt 360
gagtgggatg agcaaactca atcctggaag cggactcatg gctatgaccg tgtaaatgat 420
gac 423

<210> 4513

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-D4

<400> 4513

caactagcaa catagaaagc acaatagtgt accaacaatg gcagccaaaa tattttgcgt 60
cgggatgctc cttgggtcttt ctgcaagtgc tgctacggcg accattttcc cacaatgctc 120
acaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtgt cttcgggatg 180
tgaaaaccca attcttcaac cctataggat ccaacaggca atcgcagctg gcatcttacc 240
tttatcacc ttgttctctc aacaatcatc agcctatta cagcagttac ct 292

<210> 4514

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-D6

<400> 4514

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aaaaaaaaa aatattaaaa tatattataa taaatttaaa tatataaaaa taataataaa 120
aaaaaacatt ttaaaaaaat aataaaaaag ctactataac ttactttatt aaaacataca 180
tataacaaaa aatgtaataa aatattagaa aaccaattc ttaaaaaaat acaagatcca 240
acattttata agaatcacgc attttacctt tatgacactt gttcctccaa caacttttaa 300
gcctattaca gttagtctct ttggtgcatt ttttaaaaca ccatattcag ggaaaacttg 360

ttttaccacc ttt

373

<210> 4515

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-D8

<400> 4515

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agccatgtgt tattaggtct ctacaaggca tcagaatcac acaagctgca gttgggttca 120
gatgcacaat gcttgtgagt gacacaggaa gcgtctactc atttggaag gaggatttca 180
gggtcgcaga actagttgac ggtgctcatt ttcagatcac aactcctagg attgaggagt 240
cactgaaggg tgtgtttgta gttcaagcag ccataggggg ttacttctct gcagttctgt 300
ccagagaggg tcgagtgtac accttctcat ggggcaaagc cgagaggctt ggccacagtt 360
cggatccttc agatgtcgag cctcgtcttc tccctggact cg 402

<210> 4516

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-D9

<400> 4516

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tccctcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat tttccctcaa 120
tgctcacaag ctccatagac ttcccttctt ccccatacc ttccatcaat gatagcttca 180
gtatgtgaaa acccagctct tcaacctat aggctccaac aagcaatcgc agcaagcaac 240
atacctttat cacccttgtt tcaacaatcg ccagccctat ctttggtgca gtcat 295

<210> 4517

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-E10

<400> 4517

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cgcgatcgca gctggcatct tacctttatc acccttggtc ctccaacaat catcagccct 120
attacaacag ttacctttgg tgcatttatt ggacaaaaac atcagggcac aacaactaca 180
acaacttggt ctagcaaacc ttgctgccta ctctcagcaa cagcagattc ttccattcaa 240
ccaactaggt tcattgaact ctgcttctta tttgcaacaa cgacaactac cat 293

<210> 4518

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-E11

<400> 4518

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gcgagagag gagaggcgca gagcatcgac gatggcgagc ggcagcatga agaggagat 120
cagcgagacc cacgacaccc tccgcttcgg cctcaatgcc ggcgtcaagg ccgacctcgc 180
gccgccgcac ccgctccagt ccagcatcca atcggaggcc aagttctggg cggacaagaa 240
gaagtttggg acagaggcca tctacggatc cgccttgaac atccgcaagg atctcgatgc 300
ccaaatcctc tcaaggttcc aaaggccccc tggtgctttg ccatcatctc tgcttgata 360
tgaggcactg 370

<210> 4519

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-E2

<400> 4519

cccagctctt cagccctata ggctccaaca agcaatcgca gcaagcaaca tacctttatg 60
cacccttggt gtttcaacaa tcgccagccc tatctttggt gcagtcattg gtacaaacca 120
tcagggcaca gcagctgcag caactcgtgc tacctgtgat caaccaagta gctctggcaa 180
acctttctcc ctactctcag caacaacaat ttcttccatt caaccaactg tctacactga 240

accctgctgc ttatttgcag caacaactat taccattcag ccagctagct actggctact 300
c 301

<210> 4520
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-C11

<400> 4520

cccacgcgtc cgtgcgtaga gaggatcgtc gaacagaaca gcatgaagat gggcatcggg 60
ctcgtcgtgt gcctggctct gtcagctgcc agcgccctctg caatgcagat gccctgcccc 120
tgcgcggggc tgcagggcct gtacggcgct ggcgcgggcc tgacgacgat gatgggcgcc 180
ggcgggctgt acccctacgc ggagtacctg aggcagccgc agtgcagccc gctggcgggc 240
gcgccctact acgcggggtg tgggcagccg agcgccatgt tccagccgct ccggcaacag 300
tgctgccagc agcagatgag gatgatggac gtgcagtcg tcgcgcagca gctgcagatg 360
atgatgcagc ttgagcgtgc cgctgccgtc agcagcagcc tgtacgagcc agctctgatg 420

<210> 4521
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-H12

<400> 4521

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tcctcccacc agttgcttca atgggcttcg aacatccagc cgtgcaagcc tacaggctac 120
aactagcgct tgcggcgagc gccttacaac aaccaattgc ccaattgcaa caacaatcct 180
tggcacatct aaccctacaa accattgcaa cgcaacaaca acaacaacaa cagtttctgc 240
catcactgag ccacctagcc gtggtgaacc ctgtcaccta cttgcaacag cagctgcttg 300
catccaaccc acttgctctg gcgaacgtag ctgcatacca gcaacaacaa cagctgcaac 360
agtttatgcc agtgctcagt caactagcca tg 392

<210> 4522
 <211> 429
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-003-Q1-K1-H2

<400> 4522

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acgcaacaag ctgccccgca gcaacgaaca ctaaccttgg cagaacgaag ctgaagtagt 60
tcgttgggaa cccagtatgg caaacgcgcc gaggatcctg gccctcggcc tgctgctagc 120
gctcctgtgc gctgccgncg gcccggccgn cgcgcagaac tgcggctgcc agcctaactt 180
ctgctgcagc aagttcggct actggcggac gaccgacgac tactgcggcg acgggtgcc 240
gtcggggccc tgccgctcgg gcggcgccgg cggcgccggc ggaggcggag gcagtggcgg 300
tgcgaaactg gctaactgg tcagcgacgc gttcttcaac ggcatcaaga accaggccgg 360
gagcgggtgc gagggcaaga acttctacac ccggagcgcg ttcctgagcg ccgtcaacaa 420
gtacccggg 429
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<210> 4523
 <211> 302
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-003-Q1-K1-H3

<400> 4523

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gcaacataga aagtggaatc cagtagcaac aatagagcaa caatggcgac caagatattg 60
tccctcctta tgctccttgc tctntctaca tgtgttgcta acgcgacaat tttccctcaa 120
tgctcacaag ctccatagac ttcctttctt ccccatacc ttccatcaat tatagcttca 180
atatgtgaaa acccagctct tcaaccatat aggcttcaac aagcaatcgc agcaagcaac 240
atacctttat cgcccttggt gtttcaacaa tcgccagccc tatctttggt gcagtcattg 300
gt 302
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<210> 4524
 <211> 306
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-H4

<400> 4524

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ctgagactgt cttgtcaatt cgtttgaaga tctgtctatt tagtatctac ctaaaggata 120
at ttgggttat ctctagagtt catactattc ctgaatttca atcatgcaca gacccaacag 180
gggcaaacag tccatgatta tttctcaatg tgtgatgtct gagatcaata cattggaaaa 240
acataaacca gattcattgc ttgtaaattt taacaaaatg tttgggagaa ttaacgtgtt 300
tttgga 306

<210> 4525

<211> 294

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-003-Q1-K1-H5

<400> 4525

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ttttgcttcc ttatgtctct tggcttttct gcaagtgttg ctaccgcaac cattttccca 120
caatgtcac aagctcctat agcttccctt cttcccccat acctctcacc agcgggtgtct 180
tcaatgtgtg aaaacccaat tgttcaacct tacaggatcc aacaggcaat cgcaacaggc 240
atcttaccat tatcaccctt gatcctncaa caaccgtcag ccctaataca gcag 294

<210> 4526

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-003-Q1-K1-H6

<400> 4526

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ccttatgtct cttggccttt ctgcaagtgc tgctaccgca accattttcc cacaatgtct 120
acaagctcct atagcttctt ttcttcccc atacctctca ccagcgggtgt cttcagtatg 180

tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgagcag gcatcttacc 240
 tttatcacc ttgctccttc aacaaccgtc agccctatta cagcagttac ctttggtgca 300
 tttgttgga canaacatca aggcacaaca actacaacaa cttgtgctag gaaaccttgc 360
 tgcctactt 369

<210> 4527

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-H7

<400> 4527

cgcgaggggc cacgggcacg gcgagcatc cggttccgg cctcctgtc cccggagggtg 60
 accgccgccc tcttcgtggg cgccataacc ggccacgatg aatagcatca agtcggctat 120
 cttctccggc catcggtcgc acccccacgt gggggcgggc gcggtccgc agcagcagct 180
 ggggagcacc gtttcgttcc actcgacacc cgttctgcag cggaagcaca agaccagtg 240
 gcacaacaga ttcaactatt atacgagacg taagaagaac agagaaaact 289

<210> 4528

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-H8

<400> 4528

gacgccacga cccacgcgtc aggtcgaca tatctactat actatactct aggaagcaag 60
 gacaccaccg ccatggcagc gaagatgctt gcattgttcg ctctcctagc tctttgtgca 120
 agcgccacta gtgcgaccca tatccaggg cacttgccac cagtcatgcc attgggtacc 180
 atgaacccat gcatgcagta ctgcatgatg caacaggggc ttgccagctt gatggcgtgt 240
 cccgtcctga tgctgcaaca actggtggcc ctaacggttc aaacgaatgc cgtgattaat 300
 gccagatga tgaacgctaa catgatgtca ccattgatga tgccgagcat gatgtcacca 360
 atggtcttgc cgagcatgat gtcgcaaatg atgatgccac aatgtcactg cgacgccgtc 420
 tcgcagatta tgctgcaaca gcagttacca ttc 453

<210> 4529
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-H9

<400> 4529

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tgtcaagacc cacaagacca atgcgtactt caagcgtttc caggtgaagt ttcaagaaaa 120
ggtccttgg cagaacgact tacaggtcac gattaggtg attaaccaag aaaaaaaca 180
gtacaatata cccaaattca gatttgggtg gcgatttacc aaccaggacc ttacaggaca 240
aattatTTTT ggtaggttag ccggggaatt ggggtcttggg 280

<210> 4530
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-A10

<400> 4530

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tgcgattcgc acacggcaca catgtcaagc tagcaactgc aactccccc caaccctgct 120
cctgcgacca cttatatatc tgccatcgcc cccttattac caacatagtt caccagattc 180
accttacact ccttgtactt cctccatacc ggcccaagca ccacgaagat gattcagccg 240
cgtagacctt acgatgagct gtgcacaaga ctcaccaatg actaccgggt gt 292

<210> 4531
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-A11

<400> 4531

atagtgtacc aacaatggca gccaaaatat tttgcttct tatgctcctt ggtctttgtg 60
caagtgttgc taccgcaacc attttccac aatgctcaca agctcctata gcttcccttc 120

ttccccata cctctcacca ggggtgtctt caatgtgtga aacccaatt gttcaaccct 180
acaggatcca acaggcaatc gcaacaggca tcttaccatt atcacccttg ttcctccaac 240
aaccgtcagc cctattacag cagttacctt tgggccattt ggtggcacia aacatcaggg 300
cacaacaact acaacaactt gtgctagcaa accttgctgc atactctcag caacatcagt 360
ttcttccatt caaccaactg gctgcattga actctgctgc ttatttgcaa caacaatta 419

<210> 4532
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-A12

<400> 4532

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tgcaaggatg gagctccgat gcttaaacag aaaggacctg atcgaggcac tggccaagga 120
catccctgca ggcgcgatcc gattcggctg ccgcgtcgtc gccgtcgtc cggacccccg 180
cggcggtcac ggcgcgctcc tgacaatggc ggacggtact gccatgaagg ccaaggctct 240
gatcgggtgc gagggcacat actccgcggt gccaggtac cttggggt 288

<210> 4533
<211> 368
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-004-Q1-K1-A9

<400> 4533

cggacgcgtg ggcgcgtccc gagagcgcaa atcattccgc gcgacgcaaa aaccctaggc 60
cagccaccga cccctctcat ggcaaccacc accaccagc cgagcctcct cctccagaag 120
cagctaagag atctcgcgaa gcaccgggtg gatgggttct ctgctgggct ggtcgacgac 180
agcaatgtct tcgagtggca ggtcaccatc atcggaccgn ctgacaccct atatgatgga 240
gggtacttca atgcaataat gagcttccca caaaattacc caaacagccc ggcatcagtc 300
agatttacct ctgaaatggg gcatccaaat gtctatcctg atgggcgggt ttgtatctct 360

attctttca

368

<210> 4534

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-B10

<400> 4534

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accgtacagg atccaacagg caatcgcaac aggcattcta ccattatcac ccttggttct 120
ccaacaaccg tcagccctat tacagcagtt acctttgggtc catttggtgg cacaaaacat 180
cagggcacia caactacaac aacttgtgct agcaaacctt gctgcatact ctcagcaaca 240
tcagtttctt ccattcaacc aactgggtgc attgaactct gctgcttatt tgcaacaaca 300
attaccattc agccagctag ttgctgccta cccccagcaa tttcttccat tcaaccaact 360
agcagcattg aactctgctg cttatttaca gcagcaacaa ctacta 406

<210> 4535

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-B11

<400> 4535

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taaaatattt tgcggcctta tgctccttgg tctttctgca agtgctgcta cggcgaccat 120
tttcccacia tgctcacaag ctctatagc ttcccttctt cccccgtacc tctcaccaac 180
gggtgtcttcg gtatgtgaaa acccaattct tcaaccctac aggatccaac aggcaatcgc 240
agctggcatc ttacctttat cacccttggt cctccaacaa tcatcagccc tattacagca 300
gttacctttg gtgcatttat tggcacaaaa catcaggga caacaactac aacaacttgt 360
gctagcaaac cttgctgcct actctcagca acagcagttt cttccattca accaactagc 420
tgcattgaac tct 433

<210> 4536

<211> 374
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-004-Q1-K1-B12

<400> 4536

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cctggttgcg cttcttgccc tttttgtgag cgcaacaaat gcgttcatta ttccacaatg 120
ctcacttgct cctagtgcc a ttattccaca gttcctccca ccagttactt caatgggctt 180
cgaacaccta gctgtgcaag ccaacatgca acaacaagcg cttgcggcga gcgtcttaca 240
acaaccaatt gcccaattgc aacaacaatc cttgccacat ctaacaatac aagccatcac 300
aacgcaacag caacaacagt tcctaccagc actgagccac ctagccatgg tgaaccctgc 360
cgnctacttg caag 374

<210> 4537
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-B9

<400> 4537

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gtctagcagc agccaccgcc gcctcactct cgcagccgcc gtctgtctct ccgtgctcgc 120
ggctgccagc gccagcgccg ggacctctg cgtgccgggg tgggccatcc cgcacaaccc 180
gctcccagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 240
gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300
gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccggggcccg acgcgcagct 360
ggagggccgc ct 372

<210> 4538
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-C10

<400> 4538

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tgcattctgcc accttcggtt cacctgccac ctccggtgca tctgccaccg ccggtccacc 120
tgccgccgcc ggtccacctg ccaccgtcgg tccatgttgc cgcgccggct catctgccgg 180
cgtcaccatg ccactaccct 200

<210> 4539

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-H11

<400> 4539

accacgcgtc cgacaaatca ttgttgcat gaatatggc agcaagggt ttaatgagcg 60
ccttgatgatg gtaaataaggc cagctattgg ggtcatgttc aagaaaacc ttgatgtagt 120
tttgcaagtc cttgtttcat ttcttagcgt gagacctctg cgatctaagg tgatatcggt 180
tctgcatcgt atgatcgaga tattaggtat ctcatgtctt ccatgtattc caatcgact 240
gaggcaattg cttcttgata acgaagctaa agatatggta aaaattctcg tattggtaaa 300
ccaaattatc tgcaaattta aa 322

<210> 4540

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-F2

<400> 4540

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cggcgggtgt ggctgccaga caccaccgtt tcatctaccg cctccgttct atatgccgcc 180
tccgttctat ctgccgccg agcagcagcc gcagccatgg caatacccca ctcaaccacc 240
gcagctaagc ccgtgccagc agttcgggat cctgcggcgt cggcagcgt 289

<210> 4541
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-F3

<400> 4541

gcaacaaccc atcattggtg gtgccctctt ttagatttat tattgaacta taactcataa 60
gaaagctaaa agagggcacc aacaacgcat gattggtgcg gacgcgttgt tcgactcgag 120
gcttacggac tggttcatgc agacgtacta gctatctata gtgtgagtta tatatgacga 180
cttggttgta tctgtagaag catcagactg cgaaaacatg gcaatacccc actttaatac 240
cgtagctaaa ca 252

<210> 4542
<211> 177
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-F4

<400> 4542

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tttgacata tggtaggcca tttgtgttta ggactgagct gttgttgagt gtttgcgtca 120
tatgcttcta tgattaaaaa aaaaaaaaaa aaatataaaa actacaatct atatacc 177

<210> 4543
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-F5

<400> 4543

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catatggaag ttggcacttt tggatccagc cctactaatt caggcaagga aaatggttgt 120
gttgctccac atacacctgt cctggagttc acaagaacca acatatatac agagctaaag 180
ctgaaggggtg agaaacttga taacaactct gtctcactgg ttttgcgat agctgatttg 240
tctggctcatg caagaaatat tcatttcctc ttctacttgg actctgatac atctttgtct 300

gtagctgctg aaatggttga acaattggag ttagcagact gcgatgttac cttcattgct 360
gattctattg atcttttgat agtgaatctt attccgggtt ggagacctgt aaatgatgcg 420
gcaaca 426

<210> 4544

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-003-Q1-K1-F6

<400> 4544

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cctgaccgaa aagactgctg cagaagctat gacaccaatt gagtcaactt tctcactgga 120
tgtggaattcc aagttggatt gggaagcaat tggaaaaatt cttgcccgtg gtcatagtcg 180
tgttctctgta tactctggac accctagaaa catcattggg ctcctatagt cgaagagtct 240
atngactgtc cgtgctgaaa cggaaaaccc aagtagtgct ggttcaaata gaaagaattc 300
aaaggttcct ttaaaccctc ctctggatga aatactggat gaggttcaaa aaggaaataa 360
tcatatggct gctgttgtga aggcttaacc caaaactgaa ccacccttg acaaaactg 419

<210> 4545

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-003-Q1-K1-F7

<400> 4545

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cttcgcggcc ctggtggccg tggccgtctg ccaaggcgag gtcgagcggc agaggctcag 120
ggacctgcag tgctggcagg aggtccagga gagcccgtc gacgcgtgcc gccaggctcct 180
cgaccggcag ctaaccggcg gcggcggcgg cggcggcggtt ggcccgttcc ggtggggcac 240
cgggctccgg atgcggtgct gccagcagct ccaggacgtg agccgcgagt gccgctgcgc 300
cgncatccgg agcatggtca ggggatacga ggaggccatg ccgncgctgg agaaaggctg 360

ttggcca

367

<210> 4546

<211> 87

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-F8

<400> 4546

cctcactggg atgcaaaatt attgtcaatc agctattgat attttggact gccttaccga 60

gatgattgtc cgaagatcgc aagctcc 87

<210> 4547

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-F9

<400> 4547

gttccttaac tttttgaagt gcatcaaagg cataagcccg aaccacgttc tggagccgct 60

gtgcgctttc gcgagtccca agccgaagct aataagttca ggtgcacggg agatgctcca 120

gctcccagtc ccagtgcaca ctgaggagga ggaggaggag cttcgcttgt ctgagatctc 180

gctgcagtgc agaacggcag gatacatgat gtccaacatg tgggcgaacg atgccttcgt 240

acaaaaagct cttggtattc acaagggaac aggttcttcg tgggtcaaagt gcaacttcca 300

cataccttac acgaacgata tttcgagtgc actgaagtac catctggatg tgaccaccaa 360

aagctacagg agtctagttt acaacggtga ccatgata 398

<210> 4548

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-G1

<400> 4548

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agcaacttac ctttatcact tataatcttt cgacggtctc caaccctatc tttcctacac 120

tcattgctac aaaccatcac aaccacaaca tattcagcaa ctcttgctac cacttatcat 180
ccaattagcc ttcacaaacc ttaccacctt ctcttaaaaa caacaatttc ttccattcaa 240
ccaactcact atacttaacc cttctactta ttgaccaa caacaactac taccattcaa 300
ccatctatct acttcctaca tttaacatca acaatttttt ccatttaaac caat 354

<210> 4549
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-G10

<400> 4549

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gccagcccta tctttggtgc agtcattggt acaaaccatc agggcagaac agttgcagca 180
actcgtgcta ccagtgatca gccaaagtagc tctggcaaac ctttccccct actctcagca 240
acaacaattt cttccattca accaactgtc tatactgaac cctgctgctt atttgcagca 300
acaacaacta ctaccattca gccagctagc tactgcctac tctcagcagc 350

<210> 4550
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-G12

<400> 4550

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agcgccgtag cccacggtac aagtactact acggccgtgg cgaggccggg ggcgcgatac 120
ccgccctctg ctacgccgtc ctctgtactgc tcttagccgc ggggatcacc ctgctaattgc 180
tctacgacgt gtac 194

<210> 4551
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-G2

<400> 4551

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gggcgtcttg ccaaactcgt gcagatagcg aacaaataga ccgatttaac cgttctagat 120
acaatatttc tcctctgaga ttcaccacaa acataccctg taggcgctaa agcgcggggtt 180
acttacagct ataaggc 197

<210> 4552

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-G3

<400> 4552

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gtagggtcat actcgtccag atagcgacca aatagactga tctaccagtt cgagatacta 120
tattttctct catagatgca actcaaactt actttgtacg atctacagca aggettactc 180
agtactatga cgcatactat gaatccatct a 211

<210> 4553

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-G5

<400> 4553

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cacctgttct ttcaacaatc gccagcccta tctttggtgc agtcattggt acaaaccatc 120
agggcagaac agttgcagca actcgtgcta ccagtgatca gccaaagtagc tctggcaaac 180
ctttccccct actctcagca acaacaattt cttccattca accaactgtc tatactgaac 240
cctgctgctt atttgcagca acaacaacta ctaccattca gccagctagc tactgcctac 300
tctcagcagc aacaatttc 319

<210> 4554
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-G7

<400> 4554

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tagcttcctt tcttccccca tacctctcac cagcgggtgtc ttcaatgtgt gaaaacccaa 180
ttgttcaacc ctacaggatc caacaggcaa tcgcaacagg catcttacca ttatcacctt 240
tgttcccttc acaaccgtca agcctattac cacaagtacc tttgggccaa ttggggggccc 300
caaaccttaa ggcaccacca cctccaccac cttggcctac caaaccttgc tgcatacttt 360
a 361

<210> 4555
<211> 385
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-003-Q1-K1-G8

<400> 4555

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ccaagatatt ttccctcctt atgctccttg ctctttctac atgtgttgct aacgcgacaa 120
ttttccctca atgctcacia gctcctatag cttcccttct tccccatac cttccatcaa 180
ttatagcttc agtatgtgaa aaccagctc ttcaaccata taggcttcaa caagcaatcg 240
cagcaagcaa cataccttta tcgcccttgt tgtttcaaca atcaccagcc ctatctttgg 300
tgcagtcatt ggtacagacc atcanggcac aacagctgca gcaactcgtg ctacctgtga 360
tcaccaagt agctctggca aacct 385

<210> 4556
<211> 129
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-G9

<400> 4556

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acaaatccaa tccaaatgat ccaacatacc taaatcctca tactcatgat actgctctct 120
caatcattc 129

<210> 4557

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-003-Q1-K1-H1

<400> 4557

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ccagcaattt cttccattca accaactagc agcattgaac tctgctgctt atttacagca 120
gcaacaacta ctaccattca gccagctagc tgatgtgagc cctgctgcct tcttgacaca 180
acaacagttg ttgccgttct acctgcacgc tatgcctaac gctggcacc ctttacaact 240
gcaacaattg ctgccattca accaacttgc tttgacaaac ccaacagtgt tctaccaaca 300
acccatcatt ggtgggtgcc tcttttagat tgcttatgag ttatagttca ataatgaaag 360
tttttggatg atgnttgtgg cgtcccagaa ataagaaagt acatttct 408

<210> 4558

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-H10

<400> 4558

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cagccaaaat tttggcattc ctggccttct tggtttttca acaagccgtg gttccgggaa 120
tattattcca caatgggttaa caacaatacc tctttccggt gacagccgag agatttgaat 180
acccaactat acaatcctac aggctacaag aggccatcgc a 221

<210> 4559

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-F12

<400> 4559

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gatcatacac aggctgtgag taagagccac tatcatggct actacgttgc aactgatcac 120
aaacagcaga gtttgatatc aagaaggagg ctgcttgggc catctcaaat gctacctctg 180
gtggttctca tgagcaaatac aagtacttgg tgtctgatgg ctgcatcaag ccattgtgtg 240
accttcttgt ctgacctgat ccgagaattg taacagtttg actgaaagct cttgagaata 300
ttcttaaagt agggcagcat gacaagacca tgggtgcaac aggtgacact aacgtcttag 360
ctcagatgat cgatgaagcg gaaggcctgg aacagatcga gaacctacag agccacgata 420
acaatgaaat c 431

<210> 4560

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-D6

<400> 4560

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ctcggggggcg gtggcgggga gggccggagc ggggtgccga acaagctcgt ggtggcgggc 120
ctcgccaccg gggaagaggc cgcgccggct ctctcccccg atacggtggt cgaggtgaat 180
agtgaggagg aggtgccgta cagaatggcc gtccaccgcg gtggcgatgg cgtgttctgt 240
gccttccccca acggctgcag gttgtatcga tgggaatcac aggaaggaga gggaccacag 300
agggttggtt tggagccgga ccaggatgct ttagcagagc tgaaagatgt cggtttgcag 360
ttggccgtat ccttcagtgg agaaggttca atacttgcta ttggtggtga agatgggtat 420
tt 422

<210> 4561

<211> 360

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-003-Q1-K1-D7
 <400> 4561
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 ccttatgctc cttggtcttt ctgcaagtgt tgctaccgca accattttcc cacaatgctc 120
 acaagctcct atagcttccc ttcttcccc atacctctca ccagcgggtgt cttcaatgtg 180
 tgaaaaccca attgttcaac cctacaggat ccaacaggca atcgcaacaa gccatttacc 240
 attattaacc ttggtccttc caccacccgt aagcctaata ccagcagtaa ccttgggtca 300
 attggttgcc ccaaacctta aggccccacc acctccacca cctggggcta ccaaaccttg 360

<210> 4562
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-003-Q1-K1-D8
 <400> 4562
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 ctttctacat gtgttgctaa cgcgacaatt ttccctcaat gtcacaagc tcctatagct 120
 tcccttcttc ccccatacct tccatcaatt atagcttcag tatgtgaaaa cccagctctt 180
 caaccatata ggcttcaaca agcaatcgca gcaagcaaca tacctttatc gcccttggtg 240
 tttcaacaat caccagccct atctttggtg cagtcattgg taaaaccat caaggcacia 300
 cagctgcagc aactcgtgct acctgtgatc aaccaagtag ctctggcaaa cctttctccc 360
 tactctcagc aacaacaatt tcttccattc aaccaactat ctacactgaa ccttgctgct 420
 tatttgcag 429

<210> 4563
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-003-Q1-K1-D9
 <400> 4563

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 ttgtgcctcc ttatgtcctt tgggtcttct gcaagtgtg ctacggcgac ctttttcccg 120
 caatgtcgc aagctcctat agcttccctt cttccccgt acctctcacc agcgggtgtct 180
 tcggtatgtg aaaaccaat tcttcaacct tacaggatcc aacaggcaat cacagctggc 240
 atcttacctt tatcaccctt gtctcttcaa caatcatcag ccctattaca tcagttacct 300
 ttggtgcatt tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca 360
 aaccttgctg cctactctca gcaacagcag tttcttccat tcaaccaact ag 412

<210> 4564

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-003-Q1-K1-E1

<400> 4564

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 ccagccagga tcacgacggc gccccagcgc cgnaccctg gtcccaccaa atccccctcc 120
 tacaatctgc gcaatctgcc cggtagaatc cgtagtctta ccagtttcac tgtttctgag 180
 ttccgtgata cttggacgtt tgtgaaccgc agaataaagg atgctctcga tcttcagaaa 240
 accttccaag aggccgcata cctcgctgaa gccgtgggag caggcatggg cggcaccgtg 300
 caaggtgttc tcaacagggt cttccagaac cgtagcggat gaactttctt tnttctcaaa 360
 cacgtaatgg atggactaat tccgtctttt gcaagctgca ca 402

<210> 4565

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-E10

<400> 4565

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 cctgccgcct acctacaaca gcaacaactg ctttcatcta gcccgctcgc tgcggccaat 120

gcacctacat accctgcaaca acaattgctg caacagattg taccatctct gactcagcta 180
gctgtcgcaa accctgctgc ctacttgcaa cagctgctta cattcaacca actgactatg 240
tcgaactctg ctgcgctacct acaacagcga ccacagttac ttaatgcact agcagtggtt 300
aaccattgg tcgctgcctt gctacagcag caacaattgc tgccatacaa ccagttctct 360
ttgataaacc ctgtc 375

<210> 4566
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-E11

<400> 4566

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ttgtgctagc aaaccttgct gcctactctc agcaacagca gtttcttcca ttcaaccaac 120
taggttcatt gaactctgct tcttatttgc aacaacaaca actaccattc agccagctac 180
ctgctgccta cccccagcaa tttcttccat tcaaccaact agcagcattg aactctcctg 240
cttatttaca gcagcaacaa ctactaccat tcagccagct agctggtgtg agccct 296

<210> 4567
<211> 310
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-003-Q1-K1-E12

<400> 4567

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tggcggcgac ggcgagcggg atgccgcagg agaggatgcc gaacttgagc tggatggcgt 120
cgaccatgga gagcagcagg aagaaggtgc ccatggtgga gcacccggcg gcgagcagca 180
tcatgggctg cgcgaacctg agcacggcgc ggcgcctgtt cctcggncgg gcggcgcgcc 240
atgccggcat ctntctgcag tcgtcggacg gcgggggctt ctggtcggcg tcgccgtaaa 300
agtcgtcgg 310

<210> 4568
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-003-Q1-K1-E3

 <400> 4568

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 gcgaccaaga tatttttcccg ccttggtgctc cttgctcttt ctacatgtgt tgctaacgcg 120
 acaattttcc ctcaatgctc acaagctcct atagcttccc ttcttcccc ataccttcca 180
 tcaattatag cttcagtatg tcaaaaccca gctcttcaac catataggct tcaacaagca 240
 atcgcaacaa gcaacatacc tttaatcccc ttgttggttc aacaatcacc aacctattt 300
 ttggtgccgt ccttggtaca aaccaataag gcacaacaac ttcaacaac 349

<210> 4569
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-003-Q1-K1-E4

 <400> 4569

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 aagatattag cccggcttgc gcttctggcc ctttttgtga agcgcaacag atgcgttcat 120
 tattccacaa tgctcacttg ctctagtgc cattattcca cagttcctcc caccagttac 180
 ttcaatgggc ttggaacacc tagctgtgca agccaacatg caacaacaag cgcttgccgc 240
 gagcgtctta caacaaccaa ttgccaatt gcaacaacaa tccttgccac atctaacaat 300
 acaagccatc acaacgcaac agcaacaaca gttcctacca gcactgagcc acctagccat 360
 ggtgaaccct gccg 374

<210> 4570
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-003-Q1-K1-E5

 <400> 4570

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cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180
gcttcagtat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgcagca 240
agcaacatac ctttatcgcc cttgttggtt caacaatcac cagccctatc tttggtgcag 300
tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac 360
caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420
caactgtcta cactgaaccc tgct 444

<210> 4571

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-E6

<400> 4571

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agctcctata gcttcctttc tcccccata cctctcacca gcggtgtctt cagtatgtga 180
aaaccaatt cttcaacctt acaggatcca acatgcaatc gcagcaggca tcttaccttt 240
atcacccttg ttccttcaac aaccgtcagc cctattacag cagttacctt tgggtgcatat 300
gttggcacac aacatcatag cacaacaact acaacaactt gtgctaggga aaccttgctg 360
cctactctca gcaacagcag tttcttccat tcaaccaact ggctgcattg aactctgctg 420
cctaattgca acaacaacta ccattca 447

<210> 4572

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-003-Q1-K1-E7

<400> 4572

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 agcgcacccg cttcaaggcc ttctgtcttg tcggcgatgg cgacggccac gtcggcctgg 180
 gagtcaagtg cgccaaggag gtggccaccg ccatccgcgg cgccatcatc ctagccaagc 240
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 tgccctgcag ggtcaccggc aagtgtggct ccgtcactgt gcgcatggtg cccggggccca 360
 ggggttctgg catcgtcgcc gngcgcgtgc ccaagaaggt gctgcagttc gctggcattg 420
 aggatg 426

<210> 4573
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-E8

<400> 4573

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 agcaaakatg cagcagagga acagaaaagt tcagcaggca cgcaggactg caagctaggc 180
 agttacaaac cgagacaccc gccagccatg tctggcacca acaacagggg caagtggcag 240
 atgagtttcc acaccttgac atcataaacg atttgcttga ggaggaccag atcaacggca 300
 gtataccaga gtcatttcat caagattaca atgtgattgg cctgccattt tcaccaagag 360
 gaaacgtgtc atatatggga atggcttctg ttagaagtcc tgctcg 406

<210> 4574
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-E9

<400> 4574

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tggacgtgta cttcaattct ttgaaaaacc aaaggggtgct gatttgaatt ctatgagagt 180
 tgagaccaac ttgctgagct atgctataga tgatgcacag aaatatccat accttgcac 240
 aatgggcatt tatgtcttca agaaagatgc acttttagac cttgtcaagt caaaatatac 300
 tcaattacat gactttggat ctggaatcct tccaagagct gtacttgatc ataacgtgca 360
 agcatgcatt tttacgggct attggg 386

<210> 4575
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-F10

<400> 4575

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 cgcaagctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg tcttcggtat 180
 gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcacagct ggcattctac 240
 ctttatcacc cttgttctc caacaatcat cagccctatt acatcagtta cttttgggtg 300
 atttattggc acaaaacatc agggcacaac aactacaaca acttgtgcta gaaaccttg 360
 ctgcctactc tcagcaacag cagtttcttc catt 394

<210> 4576
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-D5

<400> 4576

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 tcattattcc acagtgtc ca ttgctccta gtgccagtat tccacagttc ctaccaccag 180
 ttacttcaat gggcttcgaa catccagccg tgcaagccta caagctacaa ctacgcttg 240
 cggcgagcgc cttacaacaa ccaattgccc aattggaaca acaatccttg gcacatcta 299

<210> 4577
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-003-Q1-K1-B7

 <400> 4577

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 caagctagcc aagcgcgcac ctcggtgacc tagctagcta cctagctagt tcaggcgacg 120
 atatggcgtc tggtcaggag agcaggaagg agctggaccg caaggctcgc gagggcgaga 180
 ccgtcgtccc cggcggggacc ggcggcaaga gcgtcgaggc ccaagagcac c 231

<210> 4578
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-003-Q1-K1-B8

 <400> 4578

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 agtgcagccc tttggtaatg ccttttctcc aatcacgttt gatacaacca agtagctgcc 120
 aggtattgca gcaacaatgt tgtcatgata ttaggcagat tgagccacaa tacattcacc 180
 aagcaatcta caacatggtt caatccataa tccaggagga gcaacaacaa caaccatgtg 240
 agttatgtgg atctcaacaa gctactcaaa gtgcggtggc aatcttgaca gcagcacaat 300
 acctaccatc aatgtgcggc ttgtaccact catactacca aaataatcca tgcagcagca 360
 atgacattag tgggtgtttgc aattgaagaa ttgtgtctac ctagccggta tactcctata 420
 acg 423

<210> 4579
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-003-Q1-K1-B9

 <400> 4579

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cacaagctcc tatagcttcc cttcttcccc cgtacctctc accaacgggtg tcttcgggtat 180
gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcgcagct ggcattcttac 240
ctttatcacc cttgttcctc caacaatcat cagccctatt acagcagtta cctttgggtgc 300
atttattggc acaaaacatc agggcacaa aactacaaca acttgtgcta gcaaaccttg 360
ctgcctactc tcagcaacag cagttttctc cattcaacca actagct 407

<210> 4580

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-C10

<400> 4580

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acaaccaatt gcccaattgc aacaacaatc cttggcacat ctaaccctac aaaccattgc 120
aacgcagcaa caacaacaac aacagtttct gccatcactg agccacctag ccgtgggtgaa 180
cccttgcaac tacttgcaac agc 203

<210> 4581

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-C12

<400> 4581

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gttgaaacgg cttcgaagaa caatgaacga agatcatggg aaggaggctg acacatcctc 120
gagttaataa cacagcgcca ttttctcgca aatccgagat tcggaagatc aagtgattgg 180
cctgttacct gtttttgctg ttgtagataa tttatttgtg aaagggtccat aggtcatagt 240
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<210> 4582

<211> 423
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-003-Q1-K1-C3

 <400> 4582

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acggcgcggc caagaatccc gcgccggagc tcaagctgct ggagaagctg cccccgcgcg 180
accgggatga agggtcgccg acatcggtgc ttgcctcggc gcgcacggcg tcgcgagcgg 240
aggtgttagg cagcgcggtt gcgaacagct cgagcgccag caggtcgctg gacctttcag 300
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agcacggctg cgcacgcca tgaacgagag cgccatatac caaggtgctc gttgaagcaa 420
acg 423
  
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<210> 4583
 <211> 221
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-003-Q1-K1-C4

 <400> 4583

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atcttctgtg ctgtgtcgag agttttggtc atggtatggg aattggggaa aggttgtacg 180
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<210> 4584
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-003-Q1-K1-C5

 <400> 4584

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 cggcggcggg cgggctcca tcggcggcca gtccgcgtcc ctcaccccg tcatccgcga 120
 cgtggccacc cagttctgtt accaagaagt cgggcacctc agggcgatca agcagacggg 180
 gaggggcttc ccgaggccgt tgctggacat cagcgcggcc aacttcggca agatcatcga 240
 gcaagcgtg aacgcgacgc tggaccgcc cttcgacccc tacgagaaca gcctcaactt 300
 cctcgtcgcc tctacatca tccnctacgt cggcctcacc ggctacgtcg gcgccaaccc 360
 caggctcctc acccctcagg ccagaaagt gctggcggtg ctgctggcgg t 411

<210> 4585
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-C6

<400> 4585

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 ccctcaatgc tcacaagctc ctatagcttc ccttcttccc ccataccttc catcaatgat 180
 agcttcagta tgtgaaaacc cagctcttca gccctatagg ctccaacaag caatcgcagc 240
 aagcaacata cctttatcac ccttggtgtt tcaacaatcg ccagccctat ctttggtgca 300
 gtcattggta caaacatca gggcacagca gctgcagcaa ctcgtgctac ctgtgatcaa 360
 ccaagtagct ctggcaaacc tttctcccta ctctcagcaa caacaatttc ttccattcaa 420
 ccaactgtct aactgaacc ctgctg 446

<210> 4586
 <211> 425
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-003-Q1-K1-C7

<400> 4586

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 aagatattat ccctccttgc gcttcttgcg ctttttgcga gcgcaacaaa tgcgttcatt 120

attccacaat gctcacttgc tccaagttcc attattacac agttcctccc accagttact 180
tcaatgggct tcgaacaccc agctgtgcaa gcctataggc tacaacaagc aattgcggcg 240
agcgtcttac aacaaccaat ttcccagttg caacaacaat ccttggcaca tctaacaata 300
canaccatcg caacgcatca gcaacaacaa ttcctaccag cactgagcca cctagccatg 360
gtgaaccctg ccgcctactt gcaacagcag ttgcttgcac caaaccact tgctctggca 420
aacgt 425

<210> 4587

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-C8

<400> 4587

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gtaatatcat ctcttcttgc gcttcttgc ctagctacga cctcaactaa ctgcttactt 120
gttccgcaat actcacttga tccaagctac attctaacac tgatcgttct accagttcca 180
tgctctagta ctgatcact ctactctgca actctataat ctacgtccct aaattccttt 240
aacagtcttg cagcatccac tatcgcaact gcatataa 278

<210> 4588

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-D1

<400> 4588

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ctatcgaggg gggataggaa ggtgggtcact catcggtcca cagctagctc gtgcggcccc 120
atggctgact ggggccccgt ggtgatcgcg acggtgctgt tcgtgctgct cacgccgggc 180
ctgctgttcc agctgccggc gcacggccga atcgtcggct tcggcaccat gcacaccagc 240
ggcctcgcca tcctcgcca cgccgtcctc t 271

<210> 4589
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-D10

<400> 4589

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cgaccaagat actttcacta cttatgctcc tggctctgtc agcatgtcat gctaacgcga 120
cactttctgct tcaatgctta caagctccta tagctaacct tgttactcca taccttccat 180
caatgatagc ttcagtatgt gaaaacctag cttttcaacc atataggcta cagcaagcta 240
ttgcagctag caacatacct ctatcacctt tgattcaact atctacagcc cta 293

<210> 4590
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-D11

<400> 4590

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ccaagatatt ttccctcctt atgctccttg ctctttctac atgtgttgct aacgcgacaa 120
ttttccctca atgctcacia gctcctatag ctcccttct tccccatac cttccatcaa 180
ttatagcttc agtatgtgaa aaccagctc ttcaaccata taggcttcaa caagcaatcg 240
cagcaagcaa cataccttta tcgcccttgt tgtttcaaca atcaccagcc ctatctttgg 300
tgcagtcatt ggtacaaacc atcagggcac aacagctgca gcaactcgtg ctacctgtga 360
tcaaccaagt agc 373

<210> 4591
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-D12

<400> 4591

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tatgctccgg ggtcgggtctg caagtgtgtc tacggcgacc attttcccgc aatgctcgca 120
agctcctata gcttcccttc ttcccccgta cctctcacca gcggtgtctt cggtatgtga 180
aaaccaatt cttcaaccct acaggatcca acaggcaatc acagctggca tcttaccttt 240
atcacccttg ttctacaac aatcatcagc cctattacat cagttacctt tgggtgcattt 300
attggcacia aacatcaggg cacaacaact acaacaactt gtgctagcaa accttgctgc 360
ctactctcag caacagcagg ttcttccatt caaccaacta gctgcattga actctgcttc 420
ttatttgcaa caacaacaac t 441

<210> 4592

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-003-Q1-K1-D2

<400> 4592

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acaagctcct atagcttccc ttcttcccc atacctctca ccagcgggtgt cttcagtatg 180
tgaaaacca attcttcaac cctacaggat ccaacaggca atcgcagcag gcattcttacc 240
tttatcacc ttgttctctc aacaaccgtc agccctatta cagcagttac ctntgggtgca 300
tttggttgca cataacatca gggcacaaca actacaacaa ctngtgctag caaaccttgc 360
tgctactct cagcaacagc agtttcttac attcaacaa ctggctgcat tgaactctgc 420
tgcttat 427

<210> 4593

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-B6

<400> 4593

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 cacaatgctc acttgctcct agtgccatta ttccacagtt cctccctcca gttacttcaa 180
 tgggcttcga acaccagct gtgcaagcct acaggctaca acaagcgctt gcggcgagcg 240
 tcttacaaca accaattgcc caattacaac aacaatcctt ggcacatcta accatacaaa 300
 ccatcgcaac gcaacagcaa caacaatttc taccagcact gagccaacta gctg 354

<210> 4594

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-D4

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 tgttctctgca acaatcatga gccctattac aacagttacc tttggtgcat ttattggcac 180
 agaacataag gggcacaaca actacaacaa cttgcggtaa cgaaccttgg tggcctatct 240
 taagcaccgg cggttcttac attcaaccca ctacgggtcat tggactctgc ttcttattcg 300
 caacaacaac aactaccatt cagccaccta cctgctgcct acccccagca atttcttcca 360
 ttcaaccaac tagcagcatt gaactgtcct gcttatttac agcagcaaca actactacca 420
 ttca 424

<210> 4595

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-H9

<400> 4595

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 gctccttggg ttttctgcaa gtgctgctac cgcaaccatt ttcccacaat gtcacaagc 120
 tcctatagct tcctttcttc ccccatacct ctaccagcg gtgtcttcag tatgtgaaaa 180
 cccaattctt caaccctaca ggatccaaca ggcaatcgca gcaggcatct tacctttatc 240

acccttggtc ctccaacaac cgtcagccct attacagcag ttacctttgg tgcatttggt 300
ggcacaaaac atcaaggcac aacaactaca acaacttggtg ct 342

<210> 4596
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-003-Q1-K1-A1

<400> 4596

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ttatgctcct tgctctttct acatgtgttg ctaacgcgac aattttccct caatgctcac 120
aagctcctat agcttccctt cttcccccat accttccatc aattatagct tcagtatgtg 180
aaaaccagc tcttcaacca tataggcttc aacaagcaat cgcagcaagc aacatacctt 240
tatcgccctt gttgtttcaa caatcaccag ccctatcttt ggtgcagtca ttggtacana 300
ccatcanggc acaacagctg cagcaactcg tgcttactgg gaaccaacca ataacttttg 360
ccaacccttc ttccttattt taagcaccac caattcttt 399

<210> 4597
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-A10

<400> 4597

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atatacctga atggtcacta tcacctatag ctaacgttct actgccatac acttcgatca 180
actattgcat cattatgaga caaccgagat gttaagacct atcagatcta acaacatgcy 240
ttagcaggta acatacctat atcacccttg gcagcaaaaac aatctccagc cctatcttta 300
gtgcaaccat tgggttcaaac cattagggg 329

<210> 4598
<211> 387

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-003-Q1-K1-A11
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 cttcgagcac tcccatagct gcggcggcgc cttattgcc agcagagttc accagattca 180
 ctttcggggc cttgtacgta cgccggaccg gcccaagcag caggagatg attcatccgg 240
 ggagacctta cgatgagctg ggcagaagac tcaccagtga ctaccggggg tacgatggcc 300
 gtggcttcga cgccgtcctt gtcgatcgca tgcaaggat caccgttctc gtaggtaacg 360
 cgcaccaact gttcaccatc gtgttcg 387

<210> 4599
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-003-Q1-K1-A3
 <400> 4599
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 ttattccaca atgctcactt gctccaagtt ccattattac acagttcctt ccaccagtta 180
 cttcaatggg cttcgaacac ccagctgtgc aagcctatag gctacaacaa gcaattgcgg 240
 cgagcgtctt acaacaacca atttcccagt tgcaacaaca atccttggca catctaacaa 300
 taaaaccat cgcaacgcaa cagcaacaac aattcctacc agcactgagc cacctagcca 360
 tggatgaacc tgccgnctac ttgcaacagc agttgcttgc atcaaaccac c 411

<210> 4600
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-003-Q1-K1-A4

<400> 4600

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tggctaccaa gatattagcc ctccttgccg ttcttgccct tttagtgagc gcaacaaatg 120
cggttcattat tccacagtgc tcaacttgctc ctagtgccat tattccacag ttctctccac 180
cagttacttc aatggggttc gaacatccag ccgtgcaagc ctacaggcta caactagcgc 240
ttgcggcgag cgccttacia caaccaattg cccaattgca acaacaatcc ttggcacatc 300
taaccctaca aaccattgca acgcaacaac aacaacaaca acagtttctg ccatcactga 360
gccacctagc cgtggtgaac cctgtcacct acttgcaaca gcagctgctt gcac 415

<210> 4601

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-A5

<400> 4601

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gagaggctag ctagggtggtc ctccaacgaa gatgttgccg gtgttcagcg ggcagggtgt 120
ggaggtgccg gcggagctgg tggcggcggg cagccggacg ccgtcgccca agacgaaggc 180
gtcgcagctg gtggggcgc 199

<210> 4602

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-A6

<400> 4602

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gcgaggccga gcgggacaac gaagtgtca ggatacttgg ttgcttcaag ttaaaccctt 120
tcgagcatct taagttgtct tttgattcat caccagatga ggtgaaaaag caatatagga 180
agttgtcatt gctggtccat tctgataaat gccagcattc ttaggcacaa gaagcttttg 240
cagctctggc gaaagcacia ca 262

<210> 4603
 <211> 244
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-A7

<400> 4603

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 agatataacc cttcttgacac ctgttgccct tgatgcgagc gcaacacatg cgttcattat 120
 tccacaatgc tcacttgctc ctagtgccat tatcacacag ttcttgccac cagttacttc 180
 aatgggcatc gaacacctat ctgtgcaagc caacatgcaa caactagcgc tagccgcgag 240
 cgtc 244

<210> 4604
 <211> 385
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-003-Q1-K1-A8

<400> 4604

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 caggagcaag gagagctggt cgtcattgca ggtcccggcg gtggcattcc cttggaagcc 120
 acgaggcggt ggcaagaccg gcggcctcga gttccctcgc cgggcgatgt tcgccagcgt 180
 cggcctcaac gtgtgcccgg gcgtcccggc ggggcgcgac ctgggggagc ccgaatccaa 240
 agtcgtacgg gccggcgaca actgggacat cgcgcgccag cttggcgccg gcgtttccgg 300
 gcagcaagcc ggctgggagg ctgangaaga agcagcgaag aagacgaagc cgaagggctg 360
 cggcagcaag aagcatcagc agctg 385

<210> 4605
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-003-Q1-K1-B1

<400> 4605

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gaggggtgttg ctcgttgccc tcgtctctct ggctctcgct gcgagcgcca cctccacgca 120
tacaagcggc ggctgcggct gccagccacc gccgccggtt catctaccgc cgccggtgca 180
tctgccacct ccggttcacc tgccacctcc ggtgcatctc ccaccgccgg tccacctgcc 240
gccgccggtc cacctgccac cgccgggtcca tgtgccgccg ccggttcata tgccgncgnc 300
accatgccac taccctactc aaccgncceg gntctagcct catccccagc cacacncatg 360
cccgtgccaa cagccgcath caagcccgtg ccagctgcag ggaacctgcg gcgttggcag 420

<210> 4606

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-B11

<400> 4606

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cggcttgatc gatctgcaag ggctgctacg gcgaccattg atccggaatg tctccaagct 120
catatatact tgctcgatcc gatgtacctg tc 152

<210> 4607

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-B12

<400> 4607

attgagacca actagcaaca tagaaagcac aatagtgtac caacaatggc agccaaagtg 60
atcttgcttc cttatgctcc ttggctcttc tgcaagtgtc gctacggcga ccattttccc 120
acaatgctca caagctccta tagcttcctt tcttcccccg tacctctcac cagcgggtgc 180
ttcgggtatgt gaaaacccaa ttcttcaacc ctataggatc caacaggcaa tcgcagctgg 240
catc 244

<210> 4608

<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-B2

<400> 4608

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gagatatgcc gtttggactt gcattggaca cgaacctaaag gccttaacag attagaacct 120
gggaaggatga atggaatggc caggtggaaa aattaagtat tggggg 166

<210> 4609
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-B3

<400> 4609

ggccaaagat tttcttccct tcttgcagcg gaacagaagg cattcggcca tcgttgaata 60
tgtttttagt ggccatcggt tcaaactaac aattcccaag gagacttgta gtatcgctt 120
ctcattatct ggtgtccgtt gtcttggtaa aggcgagcca tactcagacg aagctattgc 180
tttgatgagg agaaggatac ttcaacgaga tgtggagata gaggttgaag cagttgatag 240
gacaggaacg ttcataggtt ctttgtggga gtccaagacc aacatgggct ctgtgcttct 300
ggaagctgga cttgccaagc tgagttcatt tggcttggat aggacctcag atgcttatat 360
cctaacaaga gctgaacagt ctgcgaagc 389

<210> 4610
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-B4

<400> 4610

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ccttatgctc cttggtcttt ctgcaagtgc tgctacggcg accattttcc cgcaatgctc 120
gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtgt cttcggtatg 180

tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgagctg gcatttacc 240
 ttatcacc ttgttcttc aacaatcatc agccctatta caacagttac ctttggtgca 300
 ttattggca caaaacatca aggcacaaca ac 332

<210> 4611
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-H8

<400> 4611

gcaacataga aagcacaata gtgtaccaac aatggcagcc aaaatatatt gcctccttat 60
 gctccttggc ctttctgcaa gtgctgtac ggcgaccatt ttcccgcaat gctcgcaagc 120
 tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg tatgtgaaaa 180
 cccaattctt caaccctaca ggatccaaca ggcaatcaca gctggcatct tacctttatc 240
 acccttggtc ctccaacaat catcagccct attacatcag ttacccttgg tgcatttatt 300
 ggacataac atcagggcac atcaactaca acaacttgct ctagcaaacc ttgctgccta 360
 ctctcagcaa cagcag 376

<210> 4612
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-B5

<400> 4612

atttaggcga tgccaaagct gtgaacaaaa tattttcgga gaacgcattt gatgctgtta 60
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 acaacataac gtcaaacaca ttgacagttc ttgaggcaat ggcagcacat aatgtaaata 180
 ctctgattta ctgagtagc tgtgcaacct atggtgaacc tgatacaatg ccgattgtag 240
 aaacaactcc tcagaatcct atcaatccat atggtaaggc aaagaagatg gcggaggaca 300
 tcatcttaga ttttacaaaa tcaaagaaga attcaaatat ggctgtcatg atcttaagat 360
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<210> 4613
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-002-Q1-K2-G11

<400> 4613

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 aggaatgggt atcgacctcg tcgccggtgg gaggaataag aagaccaagc gcaactgcgcc 120
 caagtctgac gatgtctacc tcaagctcct cgtcaagctc taccgtttct tggtcaggag 180
 gaccaagagc aatttcaacg ctgtcattct caagaggctt ttcattgagta aaaccaaccg 240
 accaccaatc tccatgcgcc gncttgtcaa agttatggaa ggaaaggaga agaacattgc 300
 tgtcattggg ggcacagtca cagatga 327

<210> 4614
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-002-Q1-K2-G12

<400> 4614

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 atcactgcac aaatcatatc tgctagtata gcgggtgata tggttcttgc ttctgcctac 120
 tctcatgagt tgccacgata tggctctgaa gttgggtctga ccaactatgc agctgcctac 180
 tgcactggac ttctgttggc tcgccgtgtg ctaaagatcc gtggtttgga taaggagtat 240
 gagggcaatg ttgaggccac tggtagggac ttctctgttg agccagctga tgagaagaag 300
 ccattccgtg ctctcttggg tggttggcctt atcaagacta ccacagggaa ccgggtctt 359

<210> 4615
 <211> 188
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-002-Q1-K2-G2

 <400> 4615

gcgcacctcc gttcacgagg cggaagcatg agtcgccacc cgatcactaa gtgggcacag 60
 aggtccgaca ggggtgttctt gacgatagag ctgcccgcacg cccaggatgt gaagctgaac 120
 ttgaagcctg aaggccattt caactttctca gctaagggct cagatgactt gcgctatgag 180
 tttgacat 188

<210> 4616
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-G3

<400> 4616

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 ctctggccgt cctataattg ttgagtattc tactgtgacc gacttccgtg aagcaacctg 120
 taggcagttt gaggagaaca gctgcaaccg tgggtggctac tgtaatttca tgcattgtgaa 180
 gcatattggc agggatctca cgaggaagct gtatgggcgt tctgcttcca ggaggtacca 240
 tgggagaagc cgaagccgaa gcccgtcacc acaaaggagg ggccaccgtg accgtgatga 300
 ctaccaccac cgtgaccgtg atgactaccg tgggtggcggc ggtggtggaa ggggaagagg 360
 tagcaggtat gacaggta 378

<210> 4617
 <211> 424
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-002-Q1-K2-G4

<400> 4617

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 ttgtcaagtc tgaactaaag cctcagccaa ggtggcatgt ctgctaaggt gccaaaggta 120
 tggtatcaca tacttaagag gccactgtca atgaccacac aaacttggtt aaattgcata 180
 tgggttttcc tgtcatcagt tctaattctt gtgcattcat attttgaaat gaatgattta 240
 aatgggctac ctcacacatg nctttaatgg tattcaagga accatgtttt ggttcagaag 300

cttgcataatg catgacgcat gcagctgaca cgcccatatc tatccacggg gttatattat 360
 ctgaagattc atatatggat aagtgatggg ctaagatttg gtgacatgga ttgggaattt 420
 tggc 424

<210> 4618
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-G6

<400> 4618

cattcatccc gcgtgctctc tctctctctc tctctctctc tcgggccgtg gcgtcgagtg 60
 ggcgaccgcc gccgcccccg tgccgtgcgc tctctctctc tctcgtgtcg acgggtgggt 120
 gggcgaccgt aggccgccgc cgccgcctag gccaggtgcc caggtcgacc ttcaacagcg 180
 acgagcatcc accagatttc tacatgagtg tgatcttctt attgtgaatt cagacgcaat 240
 caagtatggc ttcaatggca atcattagga gaaggaagta tttcttggat catgttaaca 300
 cacctaccat ttcacgtctc gctttcttta cattccaaca t 341

<210> 4619
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-G7

<400> 4619

ctgcctactc tcagcaacaa ctactaccat tcagccagct agctgggtgtg agccctgcta 60
 ccttattgac acaaccacag ttgttgccgt tctaccagca cgctgcgcct aacgctggca 120
 cctctttaca actgcaacaa ttgctgccat tcaaccaact tgctttgaca aaccagcag 180
 cattctacca acaaccatc attggtgggtg cctcttttta gatgtcttat gagttatagt 240
 tcaataataa agttttttgt ctgatgtttg tggcttccca gaaataagaa agtacatttc 300
 tagattctta aaa 313

<210> 4620
 <211> 304
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3061-002-Q1-K2-G8
 <400> 4620
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 gcaacccccca ctgtggcata gactgcaacg acgttggcac caccgacatg aatgaacaga 120
 acgtcttcga gaccctgatt ggcaagcagc aacagatctt gcttgccacc caggtggtga 180
 agatgatacct gaagatcgac gatgtcatct gaccgttcga gtactgacag aaagaatgaa 240
 cgaatggcta tgctggatat gcgtaggcgg cattggtgat gtgtcgatcg gagtacctac 300
 ttat 304

<210> 4621
 <211> 347
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-002-Q1-K2-G9
 <400> 4621
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 atattttccc tccttatgct ccttgctctt tctacatgtg ttgctaacgc gacaattttc 120
 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180
 gcttcaatat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240
 agcaacatac ctttatcgcc cttgttggtt caacaatcgc cagccctatc tttggtgcag 300
 tcattggtac aaaccatcaa ggcacaacag ctgcaacaac tcgtgct 347

<210> 4622
 <211> 77
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-002-Q1-K2-H1
 <400> 4622
 cccgtctcga cccactcggt cgcaccaact atcttcatat aaagcacatt attgtaccaa 60
 caatttcac cacaata 77

<210> 4623
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-H11

<400> 4623

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gcagcacc cc gatcctgggc cagtgcgtcg agttcctgag gcatcagtgc agcccgacgg 60
cgacgcccta ctgctcgcc cagtgccagt cgttgccgga gcagtgttgc cagcagctca 120
ggcaggtgga gccgcagcac cgggtaccagg cgatcttcgg cttggtcctc cagtccatcc 180
tgcagcagca gccgcaaagc ggccaggctc cggggctgtt ggccggcgag atagcgcagc 240
aactgacggc gatgtgcggc ctgcagcagc cgactccatg cccctacgct gctgccggcg 300
gtgtccccc ctgaagaaac tatgtgctgt agtatagccg ctggctagct agctagttag 360
gtcatttaac ggcatgatt gagtaataat gtgtcacgca 400
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<210> 4624
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-H12

<400> 4624

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gacgatcgac gacgtgcatg gcgtggcgca gagctaataa taaaagggtg gtgtacgctt 120
accgcgtacg tacgtgtcac cgggcgtggc actctccagt ctccagggac ccatccacca 180
agtgtactg ctccttcgta gggagacgtg ggaataaaga gtggtagctg catgcgcgta 240
cggcggccat ggctctccga tgagagagct agctgtgtac gtgtgttcgt gatgttggtc 300
catgcatgac atgtatacgt cttgcct 327
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<210> 4625
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-H2

<400> 4625

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tggaacgcgc attgtcagag cgagcggctc actagcagct acacatcata ggtggtgaca 120
ctgcttagat ggctcaatag ctgtaattca ataataaagc ctcttggatg atgtatgttg 180
acagccagaa atccgaagtg acatatccag caggatccat caggcaatcg caacaggcat 240
cttaccatta tcacccttgt tcttcaaca accgtcagcc ctattacagc agttaccttt 300
ggtccatttg gtggcacata acatcatggc acaacaacta caacaacttg tgctagc 357

<210> 4626

<211> 359

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-002-Q1-K2-H3

<400> 4626

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ggccagaata ttttgccttc ttatgtcctt tggctcttct gcaagtgttg ctactgagac 120
cattttgccg caatgtctgc aagctcctat agcttgcctt cttaccccg t acctctcacc 180
agcgggtgtc tcggtatgtg aaaacccaat tcttcaacc tacacgatcc aacagggaat 240
cacagctggc atcttacctt tatcaccctt gttcctccaa caatcatcag ccctattaca 300
tcagttacn ttggcgcatt cattggcaca aaacatcatg gcacaacaac tacaacaac 359

<210> 4627

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-002-Q1-K2-H4

<400> 4627

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ttgcgcctcc ttgccctcct tgctctttca gcaagcgtg ctacctcgac ttgtattcca 120
caatgtcac aacaatacct gtctccgggtg acagccggg gatttcaata cccaactata 180

caatcctaca tgggtacaaga ggccatccaa gcaagcatct tacggtcatt agcattaacc 240
 ctccaacaac catatgctct attgcaacag ccataccttag tgcattctgta tctncaaaga 300
 atcgcggcac aacaactaca acaacagttg ctaccaacaa tcaatcaagt agttgcagcg 360
 .aaccttgctg c 371

<210> 4628
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-H5

<400> 4628

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 ggggggctcgg gacgggaacg ggacaggacc ccaaaatctc agatccttcc tgcccggccc 120
 cccgtgcccg tcgacgcgtc gttcttgccg gccgcgcctc accttcgtcc tctcctcctc 180
 caggggggac ggatacgcca caggctgcgc gatggtgctg tgggtcttcg gctacggctc 240
 cctcatctgg aacccccggt tcgacttcga cgacaaaatc ctgggttca tcaagggcta 300
 caagcgcacc tttaatctcg ctggcattga ccacagaggc acaccggagc attcggcgag 360
 gacctgcacg cttgaa 376

<210> 4629
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-H6

<400> 4629

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 atgaggaaat taagttcgag cccaatgtga tgtgtgaatt ccttgaccac ctgcttttgg 180
 ttcgatcttt ccaacttgga aacggggata taatttggtt tcaaaagcct, tcaaaaccat 240
 atagtgcata acgatatcga attcctgacg ttccattcct tttgacgtat atacgtaacc 300
 ggcaaggtgt gcactttccg tcattggaga agccaaagac gacaaatttt gcctgagatg 360

tcaaaaattt tcacatatga tc

382

<210> 4630

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-H7

<400> 4630

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ttatctaact ccaaaaacca tgaagctggt gcttgtggtt cttgctttca ttgcttttagt 120
atcaagtgtt tcttgtacac agacaggcgg ctgcagctgt ggtcaacaac aaagccatga 180
gcagcaacat catccacaac aacatcatcc acaaaaacca catcatcaac cacaaccaca 240
tcatcaccag cagcagcatc accaacaatca tcaagttcac atgcaaccac aaaaacatca 300
gcaacatcaa gaagttcatg ttcaacaatca acaacaacaa ccgcagcacc aacaacaaca 360
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<210> 4631

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-E6

<400> 4631

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ggctaccaag atattagccc tccttgcgct tcttgccctt tttgtgagcg caacaaatgc 120
gttcattatt ccacaatgct cacttgctcc tagtgccatt attccacagt tcttcccacc 180
agttacttca atgggcttcg aacacctagc tgtgcaagcc aacatgcaac aacaagcgct 240
tgcggcgagc gtcttacaac aaccaattgc ccaattgcaa caacaatcct tgccacatct 300
aacaatacaa gccatcacia cgcatcagca acaacagttc ctaccagcac tgagcc 356

<210> 4632

<211> 333

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-002-Q1-K2-E8

<400> 4632

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aactcagttc cgattcggca ggttcattgt gaagttgagg tgggtggtat aagcatcgaa 120
gagagcatga gcactgccag tgggtacaagg cgtgcaccaa gaagacagtc gcaagatggg 180
tctgctgata aagtagtggt gatcatcgaa gcaacctacc cggtggtggg gagccgctcg 240
ggaccaccga cccctgttcc tggcgcccaa aactcaccga ttgatgtgga ggccatcgaa 300
gatgaagttc acgcagbata ntcctcgaga gtg 333

<210> 4633

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-E9

<400> 4633

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cctccttatg ctccttggtc tttctgcaag tgctgctacg gcgaccattt tcccacaatg 120
ctcacaagct cctatagctt cccctcttcc cccgtacctc tcaccagcgg tgtcttcggt 180
atgtgaaaac ccaattcttc aaccctatag gatccaacaa gcaatcgag ctggcatctt 240
acctttatca cccctgttcc ttcaacaatc atcaagccta ttacaagaat tacctttggt 300
gcatttaatg gcacaaaaca ttaaggcaca acaactatca caac 344

<210> 4634

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-F1

<400> 4634

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atattttgct tccttatgct ccttggtctt tctgcaagtg ctgctaccgc aaccattttc 120
ccacaatgct cacaagctcc tatagcttcc tttcttcccc catacctctc accagcgggt 180

tcttcagtat gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcgagca 240
 agcatcttac ctttatcacc cttgttcctc caacaaccgt cagccctatt acagcagtta 300
 cctttggtgc atttgttggc acaaaacatc aaggcacaac aactacaaca acttgtgc 358

<210> 4635
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-F10

<400> 4635

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 ggcctcgcct gcgccacgga cgaccactcg ctccacaacg ctttcagcac ctacagctag 180
 gtcctcgagt ccaagatcat cctcgatcgt aagacgcata agtcccgcgg cttctgctac 240
 gtcaccttct acacggaaga ggcgatgcgg aacgccatcg agggcatgaa cggctaggag 300
 ctggacggtc gcaacatcac cgtgaacgat gccattccc gcagtggacg tcgaagctgt 360
 ggcg 365

<210> 4636
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-F11

<400> 4636

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 ccttatgctc cttggtcttt ctgcaagtgt tgctaccgca accattttcc cacaatgctc 120
 acaagctcct atagcttccc ttcttcccc atacctctca ccagcgggtgt cttcaatgtg 180
 tgaaaaccca attgttcaac cctacaggat ccaacaggca atcgcaacag gcacattacc 240
 attatcacc ttgttccttc aacaaccgtc agccctatta cagcagttac ctttggtcca 300
 tttggtggca caaacatca aggcacaaca actaccacaa cttgggctaa c 351

<210> 4637
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-F12

<400> 4637

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atgtatgcta ctctacttac tctacaccac atgagccgtt gcgccatacc cacattccgg 120
ataagtattc aggtacatct tctgcactct actgctgcaa attctttctc tctctctgtc 180
tgtctatcta tctgtctaac cctacatgat tctacatgca atcgcatcag gcatcacacc 240
attatcacc cttgatcctcc aacaaccgtc aggcctatta cagcagttac ctttggtcca 300
tttggtggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360
tgcgaactct taacaacagc agttaattcc attcaaacca ctgggtgtgt tg 412

<210> 4638
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-F2

<400> 4638

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gcctcccaga cagcggtgaa gagcccttcg tctctaagct tcttcagcca agttacgaag 120
gttccaagcc tgaagacctc caagaaactg gatgtctccg ccatggctgt atacaaggtg 180
aagcttgtcg ggcctgaagg tgaagagcac gagtttgatg ctccagacga cgcctacatc 240
cttgacgcag ccgagactgc cgggtgtggag ttgccatact cgtgccgtgc tggggcttgc 300
tccacctgtg ccggcaaaat cgagtctggt tcggttgacc agtcggatgg gtcctttctt 360
gatga 365

<210> 4639
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-F3

<400> 4639

tgattatccg ccaagaacaa agcaagggtgc tcctgttcct ggtctactga caaatgtgga 60
gcatgatcag cttgcgttaa atctctgtcg aacattagct ttgctgcagc gatattggga 120
tgactgcag attatcaacc gaaccctcaa acttggaat gactgcactc actggtgaca 180
aaaaagagga actcagatcc ttgggtgctc aaatagctta tagagctcca gatcccagtc 240
atggctataa gtatgtacgt tacgttgcta agcagcacc atattctatt gccgcatgga 300
attcctacta taagggtggca tcaagaatag aggacaggtc tacaca 346

<210> 4640

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-F4

<400> 4640

caactagcaa catagaaagc acaatagtgt accaacaatg gcagccaaaa cattttgcct 60
ccttatgctc cttggtatct ctgcaagtgc tgctacggcg accattttcc cgcaatgctc 120
acaagctcct atagcttccc ttcttcccc gtacctctca ccagcggtgt cttcggtatg 180
tgaaaaccca attcttcaac cctacaggat ccaacatgca atcgagctg gcattctacc 240
tttatcacc ttgtccttc aacaatcctc agccctatta cagcagtta 289

<210> 4641

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-F5

<400> 4641

actgcagctg ataccaacta tcagtcgctg agacgcagcg aacgcttgct gctgatctgc 60
agcatcggca gtcgtcttag cattgcacg actggctgca gtgaacagct gctgtctact 120
tgcaggcaca acatctacta ccatgtaatg atcacgctgg aagccatgat ggcttcttac 180
tgcgtcaaca tcttctgcca ttacatctgg aagctgtgga aaacgtagat cattccatgc 240
gacaacgtca atgggtgcca ctttaccgac agctagtgcg atacatatac gcctgtttgc 300

aacagcacca ttgctagca ttctaccac at

332

<210> 4642

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-F6

<400> 4642

caatagtgt ccaacaatgg cagccaaaat attttgctc cttatgctcc ttggtcttcc 60
tgcaagtgt gctacggcga ccattttccc gcaatgctcg caagctccta tagcttcctt 120
tcttcccccg tacctatcac cagcgggtgtc ttcgggtatgt gaaaacccaa ttcttcaacc 180
ctacaggatc caacaggcaa tcacagctgg catcttacct ttatcacctt tgttcctaca 240
acaatcatca gccctattac atcagttacc tttggtgcat ttattggcac aaaacatcac 300
ggcacaacaa ctacaacaac*ttgtgc 326

<210> 4643

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-F7

<400> 4643

tttgagcatt cagaaacaca ccaagcgaag cgcactagca acaacctaac aacaatggct 60
accaagatat tatccctcct tgcgcttctt gcgctttttg cgagcgcaac aaatgcgtcc 120
attattccac aatgctcact tgctcctagt tccattattc cacagttcct cccaccagtt 180
acttcaatgg ccttcgaaca ccagctgtg caagcctata ggctacaaca agcgattgcg 240
gcgagcgtct tacaacaacc aattgcccaa ttgcaacaac aatccttggc acatctaaca 300
atacaaacca tcgcaacgca acagcaacaa cagttcctac cagcactg 348

<210> 4644

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-F8

<400> 4644

gttcaattca agaaaccagc tttagctggt gctacttcta gcgctgagca gtctgctacc 60
actgcagaag ggatgcggcc caaaatttga gttgcctttg tgaacagcga ggatgatggc 120
ccagattacc ccccggaagta agcgttgagt ggcacaccgt gctgtggagc tctaaccggt 180
ggataataga caaaaaagga tagtgagggt gtgtatataa gaaaagggt tctattcgac 240
aatctcttat agggtttgtt gcttccttct ttctagtgtt cagagtcgtc gcaacctgta 300
atacatggca tgttgggtgt taaatgggtt tttttgtgaa atgcattgat gagttgtcgg 360

<210> 4645

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-F9

<400> 4645

ggtgtctgca attggaccct ccactagact ggtttggctc gaaagtccca cgaaccctcg 60
tcagcaaatt actgacatta agacaatctc agagatagca cattctcatg gtgctcttgt 120
tttggttgac aacagcatca tgtctccagt gctctcccgt cctatagaac tgggagctga 180
tatcgtgatg cactcggcta ccaaatttat agcgggacat agtgatctta tggctggaat 240
tcttgacgtg aagggtgaga gtttggctaa agaagtaagg tttctgcaaa atgctgaagg 300
gtcgggtctg gcaccttttg actgctgggt ttgctttgag ggaatcaaaa ccatggctct 360
gccggtggag aaa 373

<210> 4646

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-G1

<400> 4646

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ggtgctgatc gttgcccttg ctctcctggc gctcgtgctg agcgccgcct ccagtacaag 120
cggcggctgt ggctgccaga caccaccgtt tcactaccg cctccgttct atatgccgc 180

tccgttctat ctgccgccgc agcagcagcc gcagccatgg caatacccca ctcaaccacc 240
gcagctaagc ccgtgccagc agttcggatc ctgccggcgc ggcagcgtcg gcagcccgtt 300
cctgggccag tgcgtcgagt tcttgaggca ccagtgcagc ccggcggcg 349

<210> 4647
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-E4

<400> 4647

tgagcattca gaaacacacc tagcgaatcg cactagcaac gacctaacaa caatggcttc 60
caagacatta tccctccttg cgcttcttgc cctttttgtg agtgcaacaa atgcgttcat 120
tattccacaa tgctcacttg ctccgagtgc cattattcca cagttcctcc ctccagttac 180
ttcaatgggc ttcgaaacacc cagctgtgca agcctatagg ctacaacaag cgcttgccgc 240
gagcgtctta gaacaaccaa ttgcccatt acaacaacaa tccttggcac atctaaccat 300
acaaaccatc gcaacgcac agcaacaagc ac 332

<210> 4648
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-C8

<400> 4648

caccgcttct tatcctcagt tccaacccca gtcctcagt tctcgtcatc gtcctcgcgc 60
tcagtgtcat ttgcagttcc cggtagcagc catggcgtcg gtgcagctgt ctgggccgcg 120
ggtggtggcg gctgcgaaac cggctgcgtt gggcgggctc ctctgacgc cgtcccttgc 180
ggtgccaaag gggcggaggg ccaggggcct cgtggtgagg gccgtcacgg tcgtgtcacc 240
taagtataca tccataaaac cattgggaga cagagtactt gtgaagatca agacctctga 300
ggctaaatct gatgg 315

<210> 4649
<211> 255

<212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-002-Q1-K2-C9

<400> 4649

cccacgcgtc cgcccacgcg tccgccgcac ccttgccgac tataacatcc aaaaggagtc 60
 tacgtccac ctcgtgctta ggctccgcg tggaatcatt gagccctctc tgcaggcgct 120
 cgctcgcaag tacaaccagg acaagatgat ctgccgcana tgctatgcac gactgcaccc 180
 tagggctgtc aactgccgca ggaagaagtg tggtcacagc aaccagctga ggcccaggaa 240
 gaagatcaag aactg 255

<210> 4650
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-D1

<400> 4650

tcgtgagagg ttccccggtct gccccgagag catgaggag tacataccct gcctcgacaa 60
 cgaggatgat atcaagcggc tgccctcgac ggagcgcggt gagcggtttg agcggcactg 120
 ccctgccaag gacaagggtc tcagctgcct cgtgccggcg cccaacgggt acaaggcgcc 180
 catcccctgg cctcggagca gagacgaggt ctggtttagc aacgtgcctc acacaagatt 240
 gattgatgac aaaggaggac agaattggat caccaaggctc aaagataaat tcagatttcc 300
 tggaggcgga actcaattca ttcatggagc aatcaatac ctagaccaga tc 352

<210> 4651
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-D10

<400> 4651

ctcctctcct ctcgccggcg catcgcccga ctgtcagtca gcctcagcca tggccgcgga 60
 ggaggagcag ggcttccgcc cgctggacga ggcgtccctg ctcgcctaca tcaaggccac 120

gccggcgctc gcctcccgcc tcggcgggcgg tggcagtcta gactccatcg agatcaagga 180
 ggtcggcgac ggcaacctca acttcgtcta catcgtgcag tccgaggccg gcgccatcgt 240
 cgtcaagcag gcgctcccggt acgtgcgctg cgtggggggac tcgtggccca tgacgcggga 300
 gcgcgcctac ttcgaggcct tcacgctgcg ggagca 336

<210> 4652

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-D11

<400> 4652

ttgagaccaa ctagcaacat agaaagcaca atagtgtacc aacattggca gccaaaatat 60
 tttgcttctt tatgtctctt ggtctttctg caagtgttgc taccgcaacc attttgccac 120
 aatgttcaca agctcctata gcttcccttc ttccaccata cctctcacca gcggtgtctt 180
 caatgtgtga aaccccaatt gttcaaccct acaagatcca acaggcaatc gcaacatgca 240
 tcttaccatt atcacccttt gttcttcaac aaccgtcaga cctattacag cagctacctt 300
 tgggtccattt ggtggcacia aacatcatgg cacaacaact acaacaac 348

<210> 4653

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-002-Q1-K2-D2

<400> 4653

gcgaggctca agacgtacga gggcggtcccg ccgccgtacg acaagaccaa gcgtatggtc 60
 atccctgacg ctcttaaggt tctgaggcta cagcctggac acaagtactg cctcctcggc 120
 gagctctcta aggaggctcg gtggaactac catgacacca tcagggaact tgaggagaag 180
 aggaaggaga aggccaaggt tgcctacgag aggaagaagc aattggccaa gctgcgtgtc 240
 aaggccgaga aggcagccga ggagaagttg gggctctcagt tggagattct tgcccctatc 300
 aagtactgan gagctgtgct ttgtcatcag ttttggggaa catctagtct ttggtttaag 360
 tgttcggtaa cagtttgtga cagtataatc tggtaaaccg tgttatttt 409

<210> 4654
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-D3

<400> 4654

cctcgggttc ggattcgggtt tcgtgagggtt ctccgggggtt cggtttcggtt ggtgagcgga 60
tcgagatggc agcgtctgat gttgagctcc gctgcttcgt cagcggcctc gactgggcca 120
cggacgacca ctccctgcac aacgccttca gcacctacgg ctaggtcctc gagtccaaga 180
tcctcctcga tcgggagacg cagagggttcc gcggttcag ctctgtcacc ttctgcacgg 240
acgaggcgat gcggaacgcc atcgatggca tgaacggcaa ggagctggac ggtc 294

<210> 4655
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-D4

<400> 4655

gaacaacca tcctcgggtg tgccctcttt tacattgctg atgagttata gttcaatagt 60
caagttacta agacacgcac tcaatgattt ctgcaacgcg agagcaatca tgcagacagt 120
cagcacagta catctctcga gtcggtagtc cgaatgggtca a 161

<210> 4656
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-D5

<400> 4656

cgcttcttct gattccgaat ctgatagtga agatgttgat gagctccttg gcactgttgc 60
atctgtcaat gttattgaag ctactgggtg tgctataagt gaacacctct caaagatgaa 120
acttgatgat gacagccttg cagtgaagac taactcaagt tgctcagcag cagaacagca 180
tccagttgat tcagtaaaag tacataacaa tgcactctgtt gtgctgacca aaaaaatata 240

tgatttatct cttgagtggc gatcagattt atcgaaaact gatgtctggt atgccagttt 300
 tggatcaaac atgtggagac caagatttct atgctatatt caaggaggga aggctgaggg 360
 tatgaatata ccatgctgcg gatcacgtga cacaagctca ccaaagg 407

<210> 4657
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-D6

<400> 4657

cctatctttg gtgcagtcac tgggtacaaac catcagggca gaacagttgc agcaactcgt 60
 gctaccagtg atcagccaag tagctctggc aaacctttcc ccctactctc agcaacaaca 120
 atttcttcca ttcaaccaac tgtctatact gaaccctgct gcttatttgc agcaacaaca 180
 actactacca ttcagccagc tagctactgc ctactctcag cagcaacaat ttcttccatt 240
 taaccaattg gccgcactga acccctctgc ttatttccag cagcaaatac tactaccatt 300
 tggccagcta gctaca 316

<210> 4658
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-D7

<400> 4658

gcaacataga aagcacaata gtgtaccaac aatggcagcc aaaatatttt gcttccttat 60
 gctccttggt ctttctgcaa gtgctgctac cgcaaccatt ttcccacaat gtcacaagc 120
 tcctatagct tcctttcttc ccccatacct ctaccagcg gtgtcttcag tatgtgaaaa 180
 cccaattctt caaccctaca ggatccaaca ggcaatcgca gcaggcatct tacctttatc 240
 acccttggtc ctccaacaac cgtcagccct attacagcag ttacctttgg tgcatttggt 300
 ggacaaaaac atcaaggcac aacaactaca acaacttggt ctaagaaacc ttgctgccta 360
 ctctcagcaa cagcagtttc ttccattc 388

<210> 4659
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-D8

<400> 4659

agaccattag ctttatctac tccagagcgc agaagaaccc gatcgacacc atgagggtgt 60
tgctcgttgc cctcgtcttc ctggctctcg ctgcgagcgc cacctccacg catacaagcg 120
gcggtctgcg ctgccagcca ccgccgccgg ttcattctacc gccgccggtg catctgccac 180
ctacggttca cctgccacct ccggtgcac tcccaccgcc ggtccacctg ccgccgccgg 240
tccacctgcc accgtcggtc catgtgccgc cgacggttca tctgccgtcg tcaccatgcc 300
actaccctac 310

<210> 4660
<211> 217
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-E1

<400> 4660

tgccgttcta ccagcacgct gcgcctaacg ctggcaccct cttacaactg caacaattgc 60
tgccattcaa ccaacttgct ttgacaaacc cagcagcatt ctaccaacaa cccatcattg 120
gtggtgccct cttttagatt tcttatgagt tatagttcaa taataaagtt ttttgtctga 180
tgtttgtggc ttcccagaaa taagaaagta catttct 217

<210> 4661
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-E10

<400> 4661

attttgagca ttcagaaaca cacctagcga agcgactag caacgaccta acaacaatgg 60
ctaccaagat attatccctc ttgcgcttc ttgccctttt tgtgagcgca acaaatgcgt 120
tcattattcc acaatgctca ctgtctccta gtgccattat tccacagttc ctccctccag 180

ttacttcaat gggcttcgaa caccagctg tgcaagccta caggctacaa caagcgcttg 240
 cggcgagcgt cttacaacaa ccaattgccc aattacaaca acaatccttg gcacatctaa 300
 ccatacaaac catcgcaacg caacagcaac aacaatttc 339

<210> 4662
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-E11

<400> 4662

agaaacacac ctagcgaagc gcactagcaa cgacctaaca acaatggcta ccaagatatt 60
 atccctcttt gcgcttcttg ccctttttgt gagcgcaaca aatgcgttca ttattccaca 120
 atgctcactt gtccttagtg ccattattcc acagttcttc cctccagtta cttcaatggg 180
 cttcgaacac ccagctgtgc aagcctacag gctacaacaa gcgcttgcg cgagcgtctt 240
 acaacaacca attgccaat tacaacaaca atccttggca catctaacca taaaaccat 300
 cgcaacgcaa cagcaacaac aatttc 326

<210> 4663
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-E12

<400> 4663

caactagcaa catagaaagc acaatagtgt accaacaatg gcagccaaaa tattttgcct 60
 ccttatgctc cttggtcttt ctgcaagtgc tgctacggcg accattttcc cgcaatgctc 120
 gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtg cttcggtatg 180
 tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgagctg gcattctacc 240
 tttatcacc ttgttctcc aacaatcatc agccctatta caacagttac ctttggtgca 300
 tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag c 351

<210> 4664
 <211> 397

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-002-Q1-K2-E2

 <400> 4664

 gcaacataga aagtggaatc cagtagcaac aatagagcaa caatggcgac caagatactt 60
 tccctcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat tttccctcaa 120
 tgctcacaag ctctatagc ttcccttctt ccccatacc ttccatcaat gatagcttca 180
 gtatgtgaaa acccagctct tcaaccctat aggctccaac aagcaatcgc agcaagcaac 240
 atacctttat cacccttggt tcaacaatcg ccagccctat ctttggtgca gtcattggta 300
 caaacatca aggcacagca gctgcagcaa ctctgtgctac ctgtgatcaa ccaagtagct 360
 ctggcaaacc tttctcccta ctatcagcaa caacaat 397

<210> 4665
 <211> 168
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-002-Q1-K2-E3

 <400> 4665

 cgcgagagca actaatgcgt tcattattcc acacagctca ctagctccga gtgccattat 60
 tccaccgtc ctgcgtatac atgctttcat gcgcttgcaa gagacatctg agcaagccta 120
 tagggtagca caagctcttg cagtgcgcgt cttatatata accaattg 168

<210> 4666
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-002-Q1-K2-C7

 <400> 4666

 agaccaacta gcaacataga aagcacaata gtgtaccaac aatggcagcc aaaatatttt 60
 gcctccttat gctccttggc ttttctgcaa gtgctgctac ggcgaccatt ttcccgcaat 120
 gctcgcaagc tcctatagct tcccttcttc ccccgtaact ctaccagcg gtgtcttcgg 180
 tatgtgaaaa cccaattctt caaccctaca ggatccaaca ggcaatcaca gctggcatct 240

tacctttatc acccttgttc ctccaacaat catcagccct attacatcag ttacctttgg 300
 tgcatttatt ggcacaaaac atcagggcac aacaactaca acaacttgtg ctagcaaacc 360
 ttgctgccta ctctcagcaa cagcagtttc tttca 395

<210> 4667
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-A9

<400> 4667

cccacgcgtc cgccacgcg tccgcccacg cgtccggaag tgtgcgaatc acattgttcc 60
 atcgaaacaa ctgatcttgg gtggggattc aataggccat ctggcatcga ttctgattaa 120
 ggtcgttgct ctcgaggcag tcagaagagt ttctaaagca agataccctt tcatatggaa 180
 ttctgttcaa gcattgc 197

<210> 4668
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-B1

<400> 4668

attttcagca ttcaaaaaca caccaagcga agcgactag caacgaccta acaccaatgg 60
 ctaccaagat attagccctc cttgcgcttc ttgccctttt agtgagcgca acaaatgcgt 120
 tcattattcc acagtgtca cttgtccta gtgccagtat tccacagttc ctcccaccag 180
 ttacttcaat gggcttcgaa catccagccg tgcaagccta caggctacaa ctagcgcttg 240
 cggcgagcgc cttacaacaa ccaattgcc aattgcaaca acaatccttg gcacatctaa 300
 ccctacaaac cattgcaacg caacaacaac aacaaca 337

<210> 4669
 <211> 176
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-B10

<400> 4669

agaatagctg ccttgcaatt cttgggctta taactgatag tccctccagt caaatacaca 60
tgatatttta aacatgaaga ttgagctata tggagaacta ttttcttata taaaatgtca 120
tgtgaaaatg gttgggggcta gaaacttggt tcacaacaaa caggtctaga tcgcga 176

<210> 4670

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-B11

<400> 4670

agccacaccc atgcccgtgc caacagccgc atccaagccc gtgccagctg cagggaaacct 60
gcggcgttgg cagcaccgag atcctggggc agtgcgctga gtttctgagg catcagtgca 120
gcccgcagggc gacgccctac tgctcggctc atgccagtcg ttgccgagca gtgttgacgc 180
actcagcagt ggaccgacac cggacagcga ctgcgtgtct cagcatctga cacacgaacg 240
ca 242

<210> 4671

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-B12

<400> 4671

agcctcgcaa catcgagagc aactgcccgt atcaacgatg gcaccaactg tatggagctt 60
gcttatgctg cttggtcttt atgctgggtg tgctaccgca gccattgagg cacaatggta 120
acaagatggg atagctctat tgcttgccctc atacctatca ccagcgggtg cttcagtatg 180
agaaaaccca gctgttgaag cctacaggat ccaacaagcc aatgcatcag gcatctcacc 240
agtataaccc ttggtactag aacgaccgtg agccctatta caggacttac ctttgg 296

<210> 4672

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-B2

<400> 4672

tcgcctgcgc ataggcagac agatacttaa cgtagcgtac tagctacgag gtgacaccac 60
agagtctcaa cagatatctc ttccttggtc ttgttgctcc catggcgagc tcaacgaatg 120
cttacattgt gtcgaaatga tcaattgctc ctagtgccat tgatagacag tttctcattt 180
cagttactta aatcgagttc catcgctccag ctatgccagc ttatactgta ccagacatgg 240
acgctgtcaa gccgttcgaa caatatattg cc 272

<210> 4673

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-B3

<400> 4673

tcgagcattc agaaacacac caagcgaagc tacctagcaa cgacttaaca acaatggcta 60
ccaagatatt agccctcctt gcgcttcttg ccctttttgt gagcgcaaca aatgcgttca 120
ttattccaca atgctcactt gctcctagtg ccattatacc acagttcctc cgaccagtta 180
cttcaatggg cttcgaacac cttagctgtgc aagcctacag gctacaacaa gcgcttgagg 240
cgagcgtctt acaacaacca attaaccaat tgcaacaaca atccttggca catctaacca 300
tacaacccat cgcaacacaa cagcaacaac a 331

<210> 4674

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-B5

<400> 4674

cagcaagcaa catagaaagt agaatccatt agcaacaata gagcaacaat ggcgaccaag 60
atattttccc tccttatgct ccttgctctt tctacatgtg ttgctaacgc gacaattttc 120
cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180
gcttcagtat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240

agcaacatac ctttatcgcc cttgttggtt caacaatcac cagccctatc tttggtgcag 300
tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tgtgatac 357

<210> 4675
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-B6

<400> 4675

agctcatcga ctccagattg gagaactcga caccatgaag gtgctgatcg ttgcccttgc 60
tctcctggcg ctgctgcca ggcgcgctc cagtacaagc ggcggctgtg gctgccagac 120
accaccgttt catctaccgc ctccgttcta tatgccgct ccgttctatc tgccgcgcga 180
gcagcagccg cagccatggc aatacccccac tcaaccaccg cagctaagcc cgtgccagca 240
gttcggatcc tgcggcgctg gcagcgctcg cagcccgttc ctggggcagt gcgtcgagtt 300
cctgaggcac cagtgcagcc cggcggcgac gcccta 336

<210> 4676
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-B8

<400> 4676

agctgccatt gccatctact gacctgtgac ctccgcattt ccaaacagcc cgagcgagct 60
agagctagca gagcggcagg cacctccctc ctcaaggaac atggcccga cgcagcagtt 120
ggcagtagtg gcgaccgccg tggtagcctt ggtgctgctg gcggcgccgg cgacctcgga 180
ggcggccatc agctgcgggc aggtggcgct gccatcgcg ccctgcatct cctacgcgcg 240
cggccagggc tcggggccct ccgcccgtg ctgcagcggc gtcaggagcc tcaacaacgc 300
cgtccgcacc acc 313

<210> 4677
<211> 207
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-B9

<400> 4677

ccaacagcaa catagaaagt ggaatccagt agcaacaata gagcaacaat ggcgaccaag 60
atactttccc tccttatgct ccttgctctt tctgcatgtg ttgctaacgc gacaattttc 120
cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180
gcttcagtat gtgaaaaccc agctctt 207

<210> 4678

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-C1

<400> 4678

tcggctatctt agggacaaat ttggcgcagg agaaatttct actgttggtg gagccagcgc 60
gattttctgga ttcttcgcct cagcatgcag ttgtcccttt gactatgtga agacacagat 120
tcagaagatg caacctgatg ctaatggcaa agaccctgtg tat 163

<210> 4679

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-C10

<400> 4679

gcaccgaggt gtttgagctc ggtccatcat tatatgtcgt agagcttagg aaatcccacg 60
gagactctac gttgtataga cagctgtgcg aaaggctctc cgatgagcta ggtgcctgca 120
agacagacca gatcgcgagg actgaatcat cgagtgcga cctctcgagc gtcgatggcg 180
aagcgttccc tctatctggg ttctgatcat attgctttcc ctgtgttggt ttgggaacag 240
gggatgagga acatgctcgt tcttgatgca attctagatt aagatcatga atatagtgtg 300
caaagccagc ggcgggcgcg gtgcaaatta gccaccgggt tgaatataaa taatatatat 360
atatgatatg ttgcatcttc t 381

<210> 4680
<211> 185
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-002-Q1-K2-C11

<400> 4680

ccgtggccgg cgaggcggct gtgttcacgg tggatgaacca gtgcccgttc accgtgtggg 60
ccgcgtccgt gccgggtgggc ggcggggcggc agctgaaccg cggcgagagc tggcggatca 120
cggccccgc ggtcacgacg gccgcgcgca tctgtgcgcg cacgngtgc cagttcgacg 180
cgagc 185

<210> 4681
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-C12

<400> 4681

ccgtggccgg cgaggcggct gtgttcacgg tggatgaacca gtgcccgttc accgtgtggg 60
ccgcgtccgt gccgggtgggc ggcggggcggc agctgaaccg cggcgagagc tggcggatca 120
cggccccgc gggcacgacg gccgcgcgca tctgggcgcg cacggggtgc cagttcgacg 180
cgagcgggcg cgggagctgc cgcacggggg actgcggcgg cgtgctgcag tgcactgggt 240
acgggcgcgc gcccaacacg ctggcggagt acgcgtgaa gcagttcaac aacctcgact 300
tcttcgacat cttcc 315

<210> 4682
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-C2

<400> 4682

tcggatcaat gatattgagc cattctgccca agatgaaatt gtgctatatc gacagtgtgc 60
tgagaaaagg gacaaggaaa taagagagcg gatgcaaaat agtgaatata aattgggttt 120

ttcaatgccc ctggaagaag cgaaagagag agctactcaa ctccaatcag aagtaacact 180
gctagaaagg cgcattgattc ttgctagtgg acttgagggt atggaaggat ttgccagag 240
atggagcttg catggacagc ttgaagacac aaggaaaagg ctagaagcac tgaaccatgg 300
catggcaaaa cgagagaacc aaagttctac ggcggatagg aaaaaatctt cagctaggaa 360
gaagtgggtc ttttggt 377

<210> 4683
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-C3

<400> 4683

gaccaactag catcatataa agcacaataa tgtaccaaca atggcagcca aaatatcggg 60
cctacttatg ctcttggtc tatctgcaag tgctgctacg gcgaccattt taccgcaatg 120
ctcgcaagct cctatagctt accttattgc cccgtacctc tcaccagcgg tgtcttcggt 180
atgtgaaaac ccaattcttg aacctacat gatccaacag gcaatcacag ctggcatctt 240
acctttatca cccttggtcc ttcaacaatc atcagcccta ttacatcagt tacctttggt 300
gcatttattg gcacaaaaca tcaaggcaca acaactacca caacttgtgc 350

<210> 4684
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-A8

<400> 4684

catggagctc gccttggggg ccatggccag cttggcccct aagctaggcg acctgctcat 60
ggaggagtat gtcgtgcaga agggcctcaa gcccgacatc gagtctctct ccagggagct 120
tgtgatgatg aaagccgccc tcgtcgacgc gtctcgggta ccacctgac agctcaccga 180
ggtggaaaag ctttgggcac gcatgggccg ggacctgtcg tatgacatgg aggacgccgt 240
cgacgatttc atcctgcgtg tggctggtgg tgacgactct gccgctgact caaaattctt 300
caagaagacc cttgccatgg tcaaggacgt gatgtcgatg 340

<210> 4685
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-C4

<400> 4685

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ccacgtacca gcgcgcacgc acaatgtcgg gagcacaggg cgcgcacccg gtcggccaga 120
cgacgccgac gacgtacgag tcggtggggc gcggggagaa ccgcacgcgc acggacctgc 180
ggtcgcggga ggaccagtgc gccattcaga tcgagaaggt gcaggacaag gtcgacgatg 240
ccgcggggcg tggggtagac cacagcacct 270

<210> 4686
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-C5

<400> 4686

ctttccccct tctcccaatt ccctccgtcg gccgccgctc catcccgtac gaggacacca 60
tgagggagtg catttcgatc cacatcggcc aggccggtat ccaggtcgga aacgcgtgct 120
gggagctgta ctgccttgag catggcattc aggctgacgg tcagatgccc ggtgacaaga 180
ccattggggg aggtgatgat gctttcaaca ccttcttcag tgagactggt gctgggaagc 240
acgtgccccg tgctgttttt gttgaccttg aaccactgt catcgatgag gtgaggactg 300
gcacctaccg tcagctcttc caccctgagc agctcatcag tgggaaggag gatgccgcca 360
acaactttgc ccgtggtcac tacaccattg gc 392

<210> 4687
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-C6

<400> 4687

atgccactac cctactcaac cgccccggcc tcagcctcat ccccagccac acgcatgccc 60
 gtgccaacag ccgcatccaa gcccggtgcc gctgcagga acctgcggcg ttggcagcac 120
 cccgatcctg ggccagtgcg tcgagtttct gaggcatcag tgcagcccga cggcgacgcc 180
 ctactgctcg cctcagtgcc agtcgttgcg gcagcagtgt tgccagcagc tcaagcaggt 240
 ggagccgcag caccggtacc aggcgac 268

<210> 4688
 <211> 282
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K1-D11

<400> 4688

ttgagaccaa ctatcaacat agaataaaca ataccgtacc aacaatggca ggcagaatat 60
 tttgcaaact tatgctcctt ggtctttctg caagtgttgc taccgcaacc attttccac 120
 aatgctcaca agctcctata gcttcccttc tcccccata cctctcacca gcggtgtctg 180
 caatgtgtga aacccaata gttcaaccct acaagatcca tacatgcaat cgcaacaagc 240
 attttaccat tatcaccctt gaacctataa caactcattg cc 282

<210> 4689
 <211> 229
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-002-Q1-K1-D9

<400> 4689

tcagcattca aaaacacgcc aagcgaatct cactagcaac gtactaacac caatggctac 60
 caagatatna gcccttctta caaaagcttg cctcctagt tatcgagca gatgcgttca 120
 ttataccaca gtgctcactt gctcctaatt ccattattcc acacttcctc ccaccagtca 180
 ctacaatggg ctacaaacat cctaccatgc aaacctacaa gctacaact 229

<210> 4690
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K1-E11

<400> 4690

agaaacacac ctatcgaagc gcactaaca cgacctaaca acaatggcta ccagggtatt 60
attccatatt tgcgcttctt gccctttttg tgagcgcaac aaatgcgttc attattccac 120
aatgctcact tgctcctagt gccattattc cacagttcct ccctccagtt acttcaatgg 180
gcttcgaaca cccagctgtg caagcctaca ggctacaaca agcgcttgcg gcgagcgat 240
tacaacaacc aattgcccac ttacaacaac aatccttggc acatctaacc atacaaacca 300
tcgcaacgca acagcaacaa caatttctac cagcactgaa ccaactagct gtggtgaacc 360
ctgtcgctt ac 372

<210> 4691

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K1-E12

<400> 4691

cgactagcaa catattaaag cacaatgagt accaacaatg gcagccaaaa tagtgggcct 60
ctttatactc cttgggtctt ctgcaagtgc tgctacggcg accattttcc cgcaatgctc 120
gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtg cttctgtatg 180
tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgagctg gcattctacc 240
tttatcacc ttgattctac aacaatcttc agtctatta caa 283

<210> 4692

<211> 204

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K1-E9

<400> 4692

gaccaactag cactatagaa agcataaagc gtcccaacaa tggcagccaa gaaggatttt 60
taaaatgctc taaccctatc tgcaagtgtc gctaccgga ccattttccc acaatgtc 120
caagctccta tagcttccct tcttccccg tacctctcac catcagtgct tacagcatgt 180

gaaaacccaa ttctttaacc ctat

204

<210> 4693
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K1-F11

<400> 4693

cgactatcaa cattataaag ccacaataag taccacaaat ggcagccaaa ataggggctt 60
tcttatactc cttggtaact ctgcaattgt tgctaccgca accattttcc cacaatgctc 120
acaagctcct atagcttccc ttcttcccc atacctctca ccaacagtgt cttcaatgag 180
tgaaaaccca actgtccaac cctacaggat ccaataagca attactacca gcttattacc 240
attattacac ttaatacttc atacaaccaa catacctatt acaacaa 287

<210> 4694
<211> 205
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-002-Q1-K1-F12

<400> 4694

cgttccacta caatctctcc caactanagc cctatggacc cattacatgc tcagcaagat 60
tgtaaactac tctacttact ctacaccaca tgagccgttg cgccataccc acatcccgga 120
taagtattca ggtacatctc ctgcactctc ctgctgcaaa ttctttctct ctctctctct 180
ctctctctat ctctatctct ctata 205

<210> 4695
<211> 227
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-002-Q1-K1-F9

<400> 4695

ggtgtctgca atttgaccct ccactanact ggccaggctc gaaagtccca cgaagcctct 60

tttataaaat tactgacacc cagacaatct cggagatagc acattctcat ggtgctcttg 120
 ttatggttga caacagcattc atgtctccag tgctcttccg tcctatataa ctgggagctg 180
 atatcgtgaa gcactcttct accagatatc tagcaggact taaagat 227

<210> 4696
 <211> 187
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-002-Q1-K1-G11

<400> 4696

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 ttaaaaggta tcgacctcgt cacctgtggg aggaataaga agaccaagcg cactgcgccc 120
 aagtctgacg atgtcttctt caagctcttc gtcttgctct accgtatcta ggtcaagaag 180
 actcatt 187

<210> 4697
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K1-G12

<400> 4697

gacaaaaaca agttcaacac actcatgaac agacttggtg tgcgatttac caggcagggg 60
 catcacaaca caaatcatat ctgctattat agcgggtgat atggttcttg cttctgccta 120
 ctctcatgag ttgccacgat atggtcttga agttggtctg accaactatt cagctgccta 180
 ctgcactgga cttctgt 197

<210> 4698
 <211> 233
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-002-Q1-K1-G9

<400> 4698

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tatataaaac cctccttatg ccccatactc tggctacatg tgttgctaac ggcacaatta 120
tccctcaatg ctcacaagct cctatagctt ccctacttac cccatacctt ccatcaatta 180
tagcttcaat atgagaaaac ccatcacttc aaccatatag gccacaacaa gca 233

<210> 4699
<211> 205
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-002-Q1-K1-H11

<400> 4699

ggagcacccc gattctgggc cagagtancg agtccttgag gcatcagtgc aggccgactg 60
ctacgaacta ctgctggcct cagtgccagt cgggtgcggca gcagtgttgc cagcagctca 120
tgcaggtgga gccgcagcac cgggtaccagg cgatcttcgg cttggtccta cagtccatcc 180
agcagcaata gccgcaaagc ggtca 205

<210> 4700
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K1-H12

<400> 4700

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ttcgaacgac gacgtgcatg gcgtgtcgca gagctaataa taaaagggtg gtgtacgctt 120
accgcgtacg tacgtgtcac cgggcgtggc actctccagt ctccaggac ccattcacca 180
tgtgtacttg ctccttctta gggagacgtg ggaataaaga ttggtagctg catgcgcgta 240

<210> 4701
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-A1

<400> 4701

tcggacaaag cgcggagggt ccgcgccggc gccggagcgc tggcggcgcc gctcgccgtg 60
gggctcctgg cgggggctaa cgtgctggcc tgcggcgcg c tggagggcg cgtgatgaat 120
ccggcgcgcg cgttcggggc cgccgtcgtg ggctcccgtc gctggagaca ccaatgggtg 180
tactgggtgg ggcccatggt cggcgccggc ctctccggcg tcgtctacga gcacctcgtc 240
gccggcccgg ccgccgagga ggaggaagag cccgcgccga gctgcggcga ccgccgtcgt 300
gcgtagagga ctacatgcat gcaggagcag caggacgtcg tcgtcgttcc c 351

<210> 4702

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-A10

<400> 4702

gttctcttcc atcatctgtc tgcgagatga gatcgttgta tctcctggat gccatttga 60
atgaactatg cgggtctacca tctctcttcg ggaaacttag cggccttgaa attctcaacc 120
ttagcagcaa cttcagtgat ttgaaagagc ttcctcctc gattggtgac tagctaaatc 180
tgcgtgagct tgacctaaagc aacaaccaga ttcattgctc ccctgacact tttggtcggc 240
tggataaact ggagaagctt aacctagagc agaaccctct agtcattcca ccagaagaca 300
ttgtgaacaa cggcgtggat gcagtaaaag agtacatgtc aaaaacgtgg ctggacatat 360
tgctcg 366

<210> 4703

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-A11

<400> 4703

gaccaactag caacatagaa agcacaatag tgtaccaaca atggcagcca aaatattttg 60
cctccttatg ctccttggtc tttctgcaag tgctgctacg gcgaccattt tcccgcaatg 120
ctcgcaagct cctatagctt cccttcttcc ccggtacctc tcaccagcgg tgtcttcggc 180

atgtgaa

187

<210> 4704

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-A12

<400> 4704

attcagaaac acaccaagcg aagcgacta gcaacaacct aacaacaatg gctaccaaga 60

tattatccct ccttgcgctt cttgcgcttt ttgcgagcgc aacaaatgcg tccattattc 120

cacaatgctc acttgcctct agttccatta ttccacagtt cctcccacca gttacttcaa 180

tggccttcga acaccagct gtgcaagcct ataggctaca acaagcgatt gcggcgagcg 240

tcttacaaca accaattgcc caattgcaac aacaatcctt ggcacatcta acaatacaaa 300

ccatcgcaac gcaacagcaa caacagttcc taccagcact g 341

<210> 4705

<211> 181

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-002-Q1-K1-D10

<400> 4705

tgcacccgc gtccgctcct ctctctctc cggcgcaact accgactgcc agtcagcctc 60

agccatgncg gcatttttat gagcatggct tgcgcctctt ttacgaggcg tccctgctct 120

cctacatcaa tgccactccg gctctcgctt cctcctctg ctgcttttgc tatctagact 180

c 181

<210> 4706

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-A2

<400> 4706

actcttctta ctggcctgtt ctgaagcagc ttgagtctgc agccatgaaa gaatattatt 60

tcaaggctga tcgtgcgaaa acactctctg gtgggtcttc taatctgaag tatcgaaacc 120
 caaaatattt gtccatgctc aatcatctaa gaatttacct tccacaagtc tattccaagc 180
 tgaataaaaat tcttttctctg gatgaagata taattgtgca caaggaccta actggact 238

<210> 4707
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-A3

<400> 4707

accaagcctt ccggaacctt aaaaggtgga ttccggtacc aaaattagac caccattggc 60
 ggccaaaatg ttttccatcc ttatgctcgt tgctctttcg gaatgagttg ctaacgcgac 120
 catttatect caatactcac aagctactat agctgccctt cttactccat accttacatc 180
 aatgaccgct ttagtatgtg aaaaccacgc ccttcaaccc tacaggatcc atctagcaat 240
 cgcaacaagc atcttacctt tatcacacct gttcttttaa caatcgccag ccctatcttt 300
 ggtgcacaca ttggtacaaa ccatcacggc ataaca 336

<210> 4708
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-A4

<400> 4708

ctcctcctcg cgattccaat ccacgcacgc ctcctccgct tccgcctcgc tcaggcttat 60
 agtcagtgat ggaacacaag gaggcgggct gccagcagcc ggagggccca atcctatgca 120
 tcaataactg cggcttcttc ggcatgtctg cgacgatgaa catgtgctcc aagtgcaca 180
 aggagatgat aacgaagcag gagcaggccc agctggctgc cttctccatc gatagcattg 240
 tcaatggcgg tgacggcggg aaaggacctg taattgctgc atctgtaaat gcggcagttc 300
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<210> 4709
 <211> 246

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-002-Q1-K2-A5
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 tcttaccttt atcatccttg atcatacaac aaccgtcaac cctattacag catttacctt 180
 atgcgcatTT gctggcacaa aatatattcg tacaacaact acaacatctt gcgctctgaa 240
 accttg 246

<210> 4710
 <211> 354
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-002-Q1-K2-A6
 <400> 4710
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 tatagcttcc cttcttcccc cataccttcc atcaatgata gcttcagtat gtgaaaaccc 180
 agctcttcag ccctataggc tccaacaagc aatcgagca agcaacatac ctttatcacc 240
 cttgttggtt caacaatcgc cagccctatc tttggtgcag tcattggtac aaaccatcag 300
 ggcacagcag ctgcagcaac tcgtgctacc tgtgatcaac caagtagctc tggc 354

<210> 4711
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-002-Q1-K2-A7
 <400> 4711
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 aaaccgtgct tccttcttga cacagcaaca gttgctgcct ttctaccagc agtttgcggc 180

taacccccgca accctcttac aactacaaca attgttgccc tttgtccaac ttgctttgac 240
agaccgagcg gctctctacc aacaacacat cattggtggt gccctctttt agattgctta 300
ttagttgtaa ttcaataata aagttttttg gatgatgtat gtggccaacc agaaataaga 360
agttacatth ttgattttta atgtg 385

<210> 4712
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-H11

<400> 4712

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ctctctatagc ttcccttctt ccccgctacc tctcaccagc ggtgtcttcg gtatgtgaaa 180
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cacccttggt ccttcaacaa tcatcagccc tattacatca gttacctttg gtgcatttat 300
tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac cttgctggct 360
actctcagca acagcagttt cttccattca accaactagc tgcattgaac tctgcttctt 420
atttgcaaca acaacaac 438

<210> 4713
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-H12

<400> 4713

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tgctgctcgg aggcgcgcgc gtcgcggcgc ccgcaaagct caccggtaac ggcaacgctg 180
ctggcatgca ggctcttccc atgcggcgtt gcttcttccc gccgcgcccg caggcagcga 240
cctggacccg cctctgcttg caggctgcgc caagatcgtc ccaagcatat gacaacgcgc 300

cggaagaccg gagagaaata ggggacaagt acaaggacgc ggccgatgat gcgaaggacg 360
ccaccgggga cgccaaggag c 381

<210> 4714
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-H2

<400> 4714

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ccacaatgct cacttgctac tagtgccatt attccacagt tcctccgacc agatacttca 180
atgggcttcg aacacctagc tgtgcaagcc aacatgcaac aacgagcact tgcggcgagc 240
gtcttacaac aaccaattgc ccaattgcaa caacaatcct tgccacatct aacattacaa 300
gccatcacia ctcaacagca acaacagttc ctaccagcac tgagccacct agacatggtg 360
aaccatgtcg actac 375

<210> 4715
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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gcggcggcct cgaggccatt gctcgccggc ggcaatggtg ttccggcagt catgctacgg 180
ctgatgtcca cctcctcccc cgccgctccc acggaggcga aggacgaggc agccaaggcc 240
tccaaggtgg gaggggacaa gaaggcgggtg gtgatcaaca gctactgggg gatcgagcaa 300
aacaacaagc tagcgcgga cgacggcacc gagtggaagt ggacttgctt taggccatgg 360
gagacgtaca cggcggacac gtncattgac ctnaccagac accatgagcc caagacgctg 420

atggat

426

<210> 4716

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-H4

<400> 4716

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cagcatgagc tccacggagt gcggcggcgg cggcggcggc gccaagacgt cgtggcctga 120

ggtggtcggc ctgagcgtgg aggacgcaa gaaggtgatc ctcaaggaca agccggacgc 180

cgacatcgta gtgctgcccg tcggcttcgt ggtgaccgga gattatcgcc ctaaccgtgt 240

tcgcatcttc gtcgacatcg tcgtccagac gccctacatg ggctgataat atataagcta 300

gccgctatct cctttccttg ccccgaaact tgaaataaat atatatacta tgaaataacg 360

cgggcatgcc gaat 374

<210> 4717

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-001-Q1-K2-H5

<400> 4717

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gctggcgccg gcctgacgac gatgatgggc gccggcgggc tgtacccta cgcggagtag 180

ctgaggcagc cgcagtgcag cccgctggcg gcggcgccct actacgccgg gtgtgggcag 240

ccgagcgcca tgttcagcc gctccggcaa cagtgtgcc agcagcagat gaggatgatg 300

gacgtgcagt ccgtcgcga gcagctgcag atgatgatgc agcttgagcg tgccgctgcc 360

gncagcagca gcctgtacga gccagctctg atgcagcagc agcagcagct gctgg 415

<210> 4718

<211> 427

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-001-Q1-K2-H6

<400> 4718

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tcagcgaaag ccattcagat tgttcagtat ttgcacagtt aggtttcccc caacttatga 120
tgcgtttggc atccagcgat gactccggtg ttcgagaggc agcattaggg ggcttgcttg 180
agcttgcaag ggacacgaca cttggaaata ggaatctact agcagaacat gacagggttac 240
gaaggcttct ccgtggacgt atggaaagca taaggacgat gactcctgaa gatttggatg 300
ctgcacgaga agagcggcag cttgttgact cactttggat cacatgctac catgaaccct 360
tcatgctccg caatgaaaga ctcttgntc tgcttgggag gaatcccttg agcaaccctc 420
tgatgtg 427
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<210> 4719
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-001-Q1-K2-H7

<400> 4719

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aatctctcca agtccaatc ctccgatcct gcccacacc aagtcccctc caccaggccg 180
cacacctccg ccgcccggcg cgaccttgca tccaccagcc tgccctctcc ttcgctgag 240
gcgggccccg cgaccgcgtc ggcagtgcaa gaccagaccg aggcttctcc cgttggaagg 300
ttccagccat ggcgagcgcc gatctgctgc ggaaggagga ggagttctac tcctccctct 360
ntgattccgc ataaagcgac ggcgtcaagt cgcgctcgca ggtgattgat aggaagattg 420
aatccttcga ggaca 435
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<210> 4720
 <211> 392

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-001-Q1-K2-H8
 <400> 4720

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 ggccaagatc caggacaagg agggcatccc cccggaccag cagcggctca tctttgctgg 120
 caagcagctc gaggacgggc gcacattgac cgactacaac atccagaagg agagcacctt 180
 ccaccttggt ctccgcctca ggggaggcat gcagatcttc gtcaagacct tcaactggaaa 240
 gactatcacc ctcgagggtg agtcttctga caccatcgac aacgtcaagg ccaagatcca 300
 ggacaaggag ggcattccctc cagaccagca gcggtcatt tttgccggca agcagctcga 360
 agacgggcgc acgtggccg actacaacat tc 392

<210> 4721
 <211> 196
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-001-Q1-K2-H9
 <400> 4721

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 tgactcttat tccacaatgc tcacaacaat acctctttcc agcgtcactc tcattcatttc 180
 aataactcaac tatata 196

<210> 4722
 <211> 141
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-002-Q1-K1-A10
 <400> 4722

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 aacaatcgcg acctctcatt cggaactac gcctgaaact ctaacttagc atcatcttca 120
 tgattagaaa gactacctcc c 141

<210> 4723
 <211> 284
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-002-Q1-K1-A11

<400> 4723

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 cgcaagctcc tataacttcc ctctctccac cgaacctctc accagcaatg tcttcagtat 180
 gttaaaaccc aattcttcaa ccctacagga tccaactagc aattacaact tgaatataac 240
 ctttatcacc ctagatccta ctacatatat catccctata acaa 284

<210> 4724
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-002-Q1-K1-A12

<400> 4724

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 attataactc cttgcagctt cttgcgcttt ttgcgagcgc acaaatgcg tccattattc 120
 cacaatgctc acttgctcct agttccatta ttccacagtt cctcccacca gttacttcaa 180
 tggccttcga acaccagct gtgcaagcct ataggctaca acaagcgatt gcagcgagcg 240
 acttacaaca accaattgcc caattgcaac aacaatcctt ggcacatcta acaatacaaa 300
 ccatcgcaac gcaacagcaa caacatgtcc taccatcact gagccaccta gccatggtga 360
 ac 362

<210> 4725
 <211> 255
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-002-Q1-K1-A9

<400> 4725

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ttcattaaaa caactgatct tcggtggaga ttcaataggc catctggcat cgattctgat 120

taaggtcgta gctctcgagg cagtcagaat agtatctaaa gcttgatacc cttcatatg 180

gaattctata caagcattgc atattcttga gtgattctcc attgagttgg atccaaggat 240

gggtaataag aaaaa 255

<210> 4726

<211> 182

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-002-Q1-K1-B10

<400> 4726

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actttataaa agtaaacadg aacgattgat ctatatggga gaactatttt cttatctaaa 120

atgtcatgtg aaaatgggtg gggctagaaa cttgattcac aacaaacagg tctagatcgc 180

ga 182

<210> 4727

<211> 256

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-002-Q1-K1-B11

<400> 4727

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cctgttgacg aaggcagcac cccgatcctg ggccagtgcg tcgagtttct gaggcacgag 120

tgcagcccga cggcgacgcc ctactgctcg cctcagtgcc agtcgttgcg gcagcagtgt 180

tgccagcagc tcatgcaggt ggagccgcag caccggtacc aggcgatctt cggctaggac 240

ctccagtcca tctctgc 256

<210> 4728

<211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-002-Q1-K1-B12

 <400> 4728

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 cttaaactcc ttggtctttc tgcaagtgtc gctaccgcaa ccattttccc acaatgctca 120
 caagctccta tagcttcctt ttttccccca tacctctcac cagcgggtgc ttcagtatgt 180
 gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcgcagcagg catcttacct 240
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 ttgataggca caaaacatta aagcacaaca actacaacaa cttgagcta 349

<210> 4729
 <211> 209
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-002-Q1-K1-B9

 <400> 4729

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 atttttaaagg ccctgggtac cctccttact ctggctgcat gtgttgctaa cgcgacaata 120
 ttccctcaat gtcacaagc tcctatagct tcccttcttc ccccatacct tccatcaatg 180
 atagcttaag tatgttaaaa cccagctct 209

<210> 4730
 <211> 126
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-002-Q1-K1-C11

 <400> 4730

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 cgcccc 126

<210> 4731
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-H10

<400> 4731

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tgtcgacggt gagccgtgca tcccttgacc agaagcttgc cctcgccaag cgctgctccc 180
gagaggcgac tcttgccgga gctaaggcgg cagcagtggc gactatcgcc tccgcgattc 240
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aggcgctcat cgtcttcacg gtggccggga t 331

<210> 4732
<211> 182
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K1-C9

<400> 4732

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tttaaaagac ctcgagccca cgctactcgg tggaatcatt gaaccctctc tgcaagcact 120
cgctcgcaaa ctacaaccag gacaagacga tcagccgcaa atgcaattca cgactgcacc 180
ca 182

<210> 4733
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-F5

<400> 4733

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ttcaacccta caggatccaa caggcaatcg cagcaggcat cttaccttta tcacccttgt 120

tcctccaaca accgtcagcc ctattacagc agttaccttt ggtgcatttg ttggcacaaa 180
 acatcaaggc acaacaacta caacaacttg tgctaggaaa ccttgctgac tactctcagc 240
 aacagcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct tatttgcaac 300
 aacaactacc attcagtcag ctagctgctg cctaccccca gcaatttctt ccattcaacc 360
 aactggcagc attgaactct gctgcttatt tacaacagca acagctacca ccattcaacc 420
 agctagctga tgtgag 436

<210> 4734
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-F6

<400> 4734

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 ctcgcaagct cctatagctt cccttcttcc cccgtacctc tcaccagcgg tgtcttcggg 180
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 acctttatca cccttggttc tccaacaatc atcagcccta ttacatcagt tacctttggg 300
 gcattttattg gcacaaaaca tcagggcaca acaactacaa caacttgctg tagcaaacct 360
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 tgcttcttat ttgcaac 437

<210> 4735
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-F8

<400> 4735

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 caattttccc tcaatgctca caagctccta tagcttccct tcttccccca taccttccat 180

caatgatagc ttcagtatgt gaaaaccag ctcttcaacc ctataggctc caacaagcaa 240
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 tgcagtcatt ggtacaaacc atcaaggcac agcagctgca gcaactcgtg ctacctgtga 360
 tcaaccaagt agctctggca aacctttctc cctactatca gcaacaacaa tttctttcat 420
 tcaaccaact atctacactg aaccctgctg t 451

<210> 4736
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-F9

<400> 4736

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 acctctcacc aacgggtgtct tcgggtatgtg aaaacccaat tcttcaaccc tacatgatcc 180
 aacaggcaat cgcagctggc atcttacctt taccaccta gttgctccaa caatcatcag 240
 ccctattaca gcagttacct ttgggtgcatt tattggcaca taacatcagg gcacaacaac 300
 tacaacaact tgtgctagcc aaccttgggtg gctactctaa gaacagcagt ttcttccatt 360
 caaccaac 368

<210> 4737
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-G1

<400> 4737

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 ctgcaacaac aattgttgca acagattgta ccagctctga ctcagctagt tgtggcaaac 180
 cctgctgcct acttgcaaca gctgcttcca ttcaaccaac tgactatgtc gaactctgct 240
 gcgtacctac aacagcgaca acagttactt aatccactag cagtggctaa cccattggctc 300

gctgccttcc tacagcagca acaattgctg ccatacaacc agttctcttt gat 353

<210> 4738

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-G10

<400> 4738

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gctccttggt ctttctgcaa gtgctgctac ggcgaccatt ttcccacaat gtcacaagc 120

tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg tatgtgaaaa 180

cccaattctt caaccctata ggatccaaca ggcaatcgca gctggcatct tacctttatc 240

acccttggtc cttcaacaat catcagccct attacagcag ttacctttgg tgcatttatt 300

ggcacaaaac atcagggcac aacaac 326

<210> 4739

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-001-Q1-K2-G11

<400> 4739

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gctccttggt ctttctgcaa gtgctgctac cgcaaccatt ttcccacaat gtcacaagc 120

tcctatagct tcctttcttc cccataact ctcaccagcg gtgtcttcag tatgtgaaaa 180

cccaattctt caaccctaca ggatccaaca ggcaatcgca gcaggcatct tacctttatc 240

acccttggtc ctncaacaac cgtcagccct attacagcag ttacctttgg tgcatttagt 300

ggcacaaaac atcaaggcac aacaactaca acaacttggt ctaggaaacc ttgctgccta 360

ctctcagcaa caacagtttc ttccattcaa ccaactggct gcattgaact ctgctgctta 420

tttgcaaaa caactacca 439

<210> 4740

<211> 357

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-001-Q1-K2-G12

 <400> 4740

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 cctcaatact cacaagctcc tatagctgcc cttcttcccc cataccttcc atcaatgacc 180
 gcttcagttt gtgaaaaccc agcccttcaa ccctacaggc tccaacaagc aatcgcaaca 240
 agcaacttac ctttatcacc cctgttcttt caacaatcgc cagccctatc ttggtgagc 300
 tcattggtac aaaccatcag ggcacaacag ctgcaacaac tcgtgctacc agtgatc 357

<210> 4741
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-001-Q1-K2-G2

 <400> 4741

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 ggtgactgag cgctggcaga aactgttgca gctgttggtg tggccaatgc acctacatac 120
 ctgcaacaac aattgtagca acagattgta ccagctctga ctgagctagt tgaggcaaac 180
 cctgctgcct acttgcaaca gctgcttcca ttcaaccaac tgactatgtc gaactctgct 240
 gcgtaacctac aacagcgact acagctactt aatccactag cagtggctaa cccattggtc 300
 gctgccttcc tacagcagca acaattgctg ccatacaacc agttctcttt gataaacct 360
 gt 362

<210> 4742
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-001-Q1-K2-G3

 <400> 4742

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tgaaatagta aggagggccc tgagctaccc acttaaattg attgctaaaa atgccggtgt 120
 caatggcagc gtcgtcactg agaaggctct ttctaacgat aacttcaagt atggttacaa 180
 tgctgctact ggacagtacg aggacttgat ggctgctggg atcattgatc ctactaagggt 240
 ggtgagatgc tgtttggagc atgccgcgtc ggtggccaag accttcctga catctgatgt 300
 tgtggtcgtc gatattaagg agccagagtc tgcgcccctt gctaaccga tggacaactc 360
 tggctatgga tactaatgga gatgagatgg ccaaccccat gggaggaagg tgatcacaat 420
 tttttttt 428

<210> 4743
 <211> 196
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-G4

<400> 4743

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 ttcaacccta caggatccaa caagcaattt caattgacat cttaccttta tcacccta 120
 tcctacaaca tatcattaac cctattacaa caaacacctt tggttcatat atttacacaa 180
 aacattcatt gcccaa 196

<210> 4744
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-G5

<400> 4744

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 tacctcgagc aacttcactg ggctctgaac acctagctgt gcaagcctat atgctacatc 180
 cttcgctcgc tgaagcgtcc tgattgcgcc atctcggcac ttacaccatc catgcttgac 240
 ccagctatct ttacaagcca tttacctgca tcaccgcgct gctctgatca actctatgcc 300
 tttgatccgt tg 312

<210> 4745
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-G6

<400> 4745

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ttcaacccta caggatccaa caggcaatcg cagctggcat cttaccttta tcacccttgt 120
tcctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta ttggcacaaa 180
acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc tactctcagc 240
aacagcagtt tcttccattc aaccaactag ctgcattgaa ctctgcttct tatttgcaac 300
aacaacaact accattcagc cagctatctg ctgcctaccc ccagcaattt cttccattca 360
accaactgac agcattgaac tctcctgctt ttacagcag caacaactac t 411
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<210> 4746
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-G7

<400> 4746

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agctgcaggg aacctgcggc gttggcagca ccccgatcct gggccagtgc gtcgagttcc 120
tgaggcatca gtgcagcccg acggcgacgc cctactgctc gcctcagtgc cagtcgttgc 180
ggcagcagtg ttgccagcag ctccaggcagg tggagccgca gcaccggtag caggcgatct 240
tcggcttggc cctccagtcc atcctgcagc agcagccgca aagcggccag gtcgcggggc 300
tgttggcggc gcagatagcg cagcaactga cggcgatgtg cggcctgcag cagccgactc 360
catgccccta cgctgctgac ggcgggtgtcc cacactgaag aaactatgtg ctgtagtata 420
ggccgtggct agctagctag t 441
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<210> 4747
 <211> 432

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-001-Q1-K2-G8
 <400> 4747

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 aggagaggcc ggcgtcccca agtctcactt ccgccgtcca ctttccccct gtagggatcg 180
 agggaggaag gaaaggagggt gcttcacaat gaaggccctc attcttgcg ggggtttcgg 240
 aaccgcctt cggcctttga ctctgagctt cccgaaacct ctcgtggatt ttgcaaacia 300
 gcccatgatt ctgcaccaga tcgaagcttt gaaagaagtt ggggtcacag aggtgggttt 360
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 tggcatcaca at 432

<210> 4748
 <211> 412
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-001-Q1-K2-F4
 <400> 4748

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 gtcgactact gcagtaagaa ggactaccgc gtgaagggtga gcggggtgca gatcgtgccc 180
 gatccgggtcg aaccgggcaa gcccgccact ttcaagatct ccgcttctac tgataaaacc 240
 atcgagaagg ggaagctggt catcgacgta aagtatttct tcttctacgt gcactcggag 300
 acccgcgaca tctgcggaga gacttctctc ccagcgaccg gcgacttcgt gctgtcccac 360
 cagcagacgc tgncaggctt cacttcgccg gggctctaca cgatctacat ga 412

<210> 4749
 <211> 414
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-001-Q1-K2-D8

<400> 4749

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tccttatgct ccttggtctt tctgcaagtg ctgctacggc gaccattttc ccgcaatgct 120
cgcaagctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg tcttcgggtat 180
gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcacagct ggcattcttac 240
ctttatcacc cttgttcctc caacaatcat cagccctatt acatcagtta cctttgggtgc 300
atttattggc acaaaacatc agggcacaac aactacaaca acttgtgcta gcanaccttg 360
ctgcctactc tcagcaacag cagtttcttc cattcaacca actagctgca ttga 414

<210> 4750
<211> 288
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-001-Q1-K2-D9

<400> 4750

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gcagcacacc aagcaagaaa gaggaagatg ataaaggcca taaaaatgca gatgatgata 120
atttctttcg caggcttttc aaggataaga atgaagaana gaaagggatt gttcatgaca 180
ggaatgaaga tgacaagtgt gaggaagggtg attaaagaaa cttcttnhgc anattattta 240
agattaacat gangagagga gaacttgagg acctgataaa aatgatga 288

<210> 4751
<211> 416
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-001-Q1-K2-E1

<400> 4751

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agcaataagg agattcaata ttgataaaag aagtccactt cctcaggttg cctggaattt 120

tgtaaatgat gggctgcgta cttcgctttg cctgcagttt gagcctcatc atattgcagc 180
 tgggtgctatc tatttggctg ctaaatttct caaagtgaat ctcccatctg atgggtgataa 240
 gatttgggtg caggattttg atgtcacgcc acgacaactt gaagagggtta gcagtcaatt 300
 gctggagttg tatgagcaaa accgtacaac gcaggcaciaa tcatcacagg gaagtgaag 360
 cgangggagc tctgctggtg tgtgtaatca acgttcaact gtaaagtctg aaacga 416

<210> 4752

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-E10

<400> 4752

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 tgtgctggtt ggtcttactg caagctgctg ctacgcgcga ctattgttc ccgcaatgct 120
 cgcaagctcc tatagcttcc cttattgccc agtacctctt accagcgggtg tctcaggtat 180
 gtgaaaaccc aatacttcaa ccctacagga tccaacaggc aatcacagct ggcatcttac 240
 ctttatcacc cttgttactg caacaatcat cagccctatt acatcactta cttttggtgc 300
 atttattggc acaaaacatc acggcacaac aactacaaca acttgtgcta gcaaaccttg 360
 ctgcctactt ttagcaacaa cagtttctt 389

<210> 4753

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-E11

<400> 4753

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 ttcgtc 66

<210> 4754

<211> 382

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-001-Q1-K2-E12

<400> 4754

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gaggggtgtga gggaaggagc accagccatg gtgcacgtca acttctaccg caactatggt 120
aagacgttca agaaaccaag gcgtccttat gagaaggagc gtcttgatgc tgaactgaag 180
ctggttggtg agtatgggct gaggtgcaag cgtgagcttt ggaggggtcca gtatgcactg 240
agcaggatcc gtaatgctgc aaggcacttg ctcacccttg acgagaagaa cccccgtcgt 300
atcttttgag gtgaggcact tcttcgncgc atgaaccgct atgggctgct tgctgaagg 360
cagaacaagc ttgattatgt tc 382

<210> 4755

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-001-Q1-K2-E2

<400> 4755

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tgcagtagcg gccgtaaagc gggctggtcg aggtgctgtt ggtggcgagc attgcgcac 120
agctgacggc gatctgcgga ctgcagtatg cgtgtacatg ccgctacact gttgtcgacg 180
ttgtgctata ctagaagaaa ctatgtgctg tagaatgaga cgctggctat ctaagctaga 240
tgagtaattg atgcgangaa tattgatgaa tagtgtgtac acgcatgacc atggttgccg 300
agcagtagct tgagcagtgt caccaatgaa caactgcgct ggcacaatca tcacatggaa 360
gtgcagccga tgtaaacgat gcatgcttac gtact 395

<210> 4756

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-E4

<400> 4756

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taccgtaaag catcagcagc agggcagcgt ggtgcctgct tcttccgctc cggtcacgac 180
ggcagctgct cagtgcacgc catctgcggc cacagcagcg caagccatcc gcgtcgccta 240
ggagtcgtcg tcgtacattt cgtgcgcgtg attactagct tgttgacgac gacgccagcg 300
cagggattca gcgcggacgg tgacgataca agcacgatgg atcgacgagc gtcgagtcac 360
ggtcac 366

<210> 4757
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-E5

<400> 4757

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aactcactgc cagccagtga agggggagaa gtgtactgct ccgtcgacca gtgcgcgcac 120
cgcccggcag ggctgctcat ctgctcgacg accagtggat taatcggcat ggccggctctg 180
gccacgtcgc agctcgtcgc aacgcgcgcc ggctggggcg tcccggacgc gtccacgttc 240
cgccgcggcg ccgcgcaggg cctgaggggg gcccgggcgt cggcgggcggc ggacacgctc 300
agcatgcgga ccagcgcgcg cgcggcgccc aggcaccagc agcaggcgcg ccgcgggtggc 360
aggttcccgt cgctcgtcgt gtgcgccagc gccggcatga acgtcgtctt cgtc 414

<210> 4758
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-E6

<400> 4758

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ccctcaatgc tcacaagctc ctatagcttc ccttcttccc ccataccttc catcaattat 180

agcttcaata tgtgaaaacc cagctcttca accatatagg cttcaacaag caatcgcagc 240
aagcaacata cctttatcgc ccttggtgtt tcaacaatcg ccagccctat ctttggtgca 300
gtcattggta caaacatca gggcacaaca gctgcagcaa ctctgtctac ctctgatcaa 360
ccaagtagct ctggcaaacc tttctcccta ctctcagcaa caacca 406

<210> 4759

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-E7

<400> 4759

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caagctccta tagcttccct tcttcccccg tacctctcac cagcgggtgc ttcgggtatgt 180
gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcacagctgg catcttacct 240
ttatcacctt tgttctcca acaatcatca gccctattac atcagttacc tttggtgcat 300
ttattggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct 360
gcctactctc agcaacagc 379

<210> 4760

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-001-Q1-K2-E8

<400> 4760

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cgtccacggg cgcgcgcgcg gggcggggtcg cgtcgtgggc gctggcctcg ccgcgcgcgc 120
ccggcggagg gcgctcgtcg ccgtagcctc ccaccaggag caccacgagc cgctcccgcc 180
gcgcgcgcag gagggcggcg ccgtggctgt ggcgacgcag gctgacgagg cggaggtcca 240
tgcgaatgac gtcggcgcg ctgctgctga aacctcgtct ccccaactgg ctgctggcaa 300

gacagtgcgt gttcgatttg tgctgaaaag gcagtgcacg ttcgggcaga gcgtctgcct 360
 tgtcggcgac gaccctgcgc tcggcctctg ggatctgtcg aacgcgtntc ctttgaagtg 420
 ggcgg 425

<210> 4761
 <211> 260
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-E9

<400> 4761

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 ggccaaagga ttggtgaata tgctagtgcc tcgggaagtg ttgattttga ttctgtgctg 120
 tgtagaaact gtaagcgcca tatagccagc cagtctgctc atcttcatga ggcatactgc 180
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 agcaacagat catgtgcact 260

<210> 4762
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-F1

<400> 4762

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 atatgatctc aaatattgaa ccagtgactg cagtgaatat atacaagtac tgatgagaag 180
 atgaacagca atgatgggat gaaagatact ttgatgccaa aactgactc tgcaatattg 240
 aatgtgtcaa tattcgaaga cttgatatta tagagcaatc ctacaatggc cttgtactta 300
 ta 302

<210> 4763
 <211> 84
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-F10

<400> 4763

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cctggactca attctgctgc aacc 84

<210> 4764

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-F11

<400> 4764

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cgtgtgcctg gctctgtcag ctgccagcgc ctctgcaatg cagatgccct gccctgcgc 120
ggcgctgcat ggcttgtacg gcgctggcgc cggcctgacg acgatgatgg gcgccggcgg 180
tctgtacccc tacgcggagt acctgaggca gccgcagtgc agcccgtgg cggcagcggc 240
ctactacgcc ggggtgtgggc agactagcgc catgtaccag tcgctccggc aacagtgc 299

<210> 4765

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-F12

<400> 4765

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cctgcccctg cgcggggctg catggcttgt accgcgctgg cgccggcctg acgacgatga 180
tgggcgctg cggctctgtac ccctacgcgg agtacctgag gcagccgcag agcaccgcc 240
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g 301

<210> 4766

<211> 374

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3061-001-Q1-K2-D7
 <400> 4766

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 ctaccaagat attatccctc tTtgcgcttc tTgccctttt tgtgagcgca acaaatgcgt 120
 tcattattcc acaatgctca cTtgctccta gtgccattat tccacagtTc ctccctccag 180
 ttacttcaat gggcttcgaa caccagctg tgcaagccta caggctacaa caagcgcttg 240
 cggcgagcgt cttacaacaa ccaattgccc aattacaaca acaatccttg gcacatctaa 300
 ccatacaaac catcgcaacg caacagcaac aacaatttct accagcactg agccaactag 360
 ctgtggtgaa ccct 374

<210> 4767
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-001-Q1-K2-F3
 <400> 4767

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 tctctttccc agccctctct cTccctctcc acccggccgc caccatgtca ggcctctaca 120
 gccagggtt cTccccTgca agaaccctct cccccagat taggagcaac cccgacgctg 180
 acagccagta cTtggccgag cTtctcgcg agcatcagaa gctggggccc tTcatgcagg 240
 tgctgccgat atgcagccg cTgctcaatc aagaaatcat gcgggtatca agcatggTtc 300
 atgaccatgg atttagtgat cTtgacaggc gccggtttag aagtcctagc cctatgtcct 360
 caccaattgt ccggcctaata ctacatggca atggatttgg tccttggaat gggatgcacc 420
 aagagagatt gggctt 436

<210> 4768
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-001-Q1-K2-C2

<400> 4768

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cacaagctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg tcttcgggtat 180
gtgaaaaccc aattcttcaa ccctatagga tccaacaggc aatcgcagct ggcattcttac 240
ctttatcacc cttgttctct caacaatcat cagccctatt acagcagtta cctttggtgc 300
atttattggc acanaacatc agggcacaac aactacaaca acttgtgcta gcaaaccttg 360
ctgcctactc tcagcaacaa cagtttcttn cattcaacca actagctgca ttgaactctg 420
cttcttattt gcaacaacaa 440

<210> 4769

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-C3

<400> 4769

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cattcaacca actagcagca ttgaactctg ctgcttattt acagcagcaa caactactac 120
cattcagcca gctagctgat gtgagccctg ctgccttctt gacacaacaa cagttgttgc 180
cgttctacct gcacgctatg cctaacgctg gcacctctt acaactgcaa caattgctgc 240
cattcaacca acttgctttg acaaacccaa cagtgttcta ccaacaaccc atcattgggtg 300
gtgccctctt ttagattgct tatgagttat agttcaataa tgaagttttt tggatgatgt 360
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<210> 4770

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-C4

<400> 4770

gtctccgtct ccatctgcgt ctacgtctcc acaccgtgcc gtagctgctg ctgtccgtgt 60

ccgtcgctc gaagaagaca actccaacac tgttgccgcg tgactgctga attcgctcca 120
cacacacgcg cgaacccagc aaggcaagaa cacgaacgag agagagagag agagaggcag 180
ggaggggtca tacatgcac agaccatcac ccatggacaa ccttaaggag cagcggggcc 240
acgatgccgc gggcgccaac agcggcgctc ggatgacggt gccggcggtc ggtgactggg 300
acaccaagaa cggcacgctg tcggactact ccatggactt ctccaagatc cgtgagatgc 360
gcaagcagaa catgaaggag ctctcccgcg ccagccttgg cggtgacgac ga 412

<210> 4771
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-C5

<400> 4771

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tggtcttgct gtaagtgtg ctactgcaac cattagcaca caatgctaac acgctcatat 120
agctaactat cttatactat acctgtcact agcggatatc tcagcatgag aaaacgcaat 180
tctacaactc tacaggatcc aaaaggcaat cgcagcaggc attttacctt tatcaccatc 240
attcttgcaa catccgcaag cattattaca gcaactacct ttagcgcgatg tgcaggcaca 300
gaacatcaag gtacaacaac tacaactact agagctagg 339

<210> 4772
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-C6

<400> 4772

aatatagcga gcatacgaaa acacatatat agtagagaac taacaatgac ctaggcgcaa 60
tggtcaggat gaaattgtg gtactggatc tacttgctct caatgcgagt gcgatataag 120
cgcttactat cttacactgc acatttgatc agagtgtat taatcatgag aaaatgcaag 180
tagatactcc aacgggattc aaccagccag ctgagcaaga ttataaacta catcacgatc 240
ttgcgtcgaa cgtccgacag caacattaca gcacatttac tacagcacat ttatgggcat 300

ataacattat ggcacaacac cactcagcag tagcgatctg agacccagct aactactctg 360
aatgctatca gctacttgca ttaaca 386

<210> 4773
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-C7

<400> 4773

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ccatgaggggt gttgctcggt gccctcgctc tcttggtctc cgctgcgagc gccacctcca 120
cgcatacaag cggcgggtgc ggctgccagc caccgccgcc gggtcatcta ccgccgccgg 180
tgcactctgcc acctccggtt cacctgccac ctccggtgca tctcccaccg ccggtccacc 240
tgccgccgcc ggtccacctg ccaccgccgg tccatgtgcc gccgccggtt catctgccgc 300
cgccaccatg ccactaccct actcaaccgc cccggcctca gcctcatccc cagccacacc 360
catgcccgtg ccaacagccg catccaagcc cgt 393

<210> 4774
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-001-Q1-K2-C8

<400> 4774

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acggcatcgt gggctctacc actggcagca actactacgt gcggatcctc agcaccatca 120
accgcgagtt gctcaagccg tcagcgctccg tcgcgttgca tcgtcactcc aacgctctag 180
tcgacgtgct gccgccggag gccgactcca gcatctcctt gttgggatcg tcggagaagc 240
ccaacgtcac ttacaacgat attggaggat gtgacatcca aaagcaagaa atacgggagg 300
cggttgaatt acccttgact catcatgagt tgtacaagca gactgggtatt gatcctncaa 360
gaggggtgct tctgtatggt cctccgggta ctggcaagac catgcttgcc aaagcagttg 420

cacatcatac cac

433

<210> 4775

<211> 298

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-001-Q1-K2-C9

<400> 4775

aaagaatttg gcatccctgt agaatgccaa cgattttggg tatgggcaaa acgacagaac 60

tgtacctaca gaccagtcg tccattaacc tcccaggagg aaacatctac tattgggggtt 120

ctcaaagatg caacagtggc gaagttaccg aattctgaag tacgattggt cttggagggtt 180

catttcagac aggagaaacc aaccaattgc tcttgggaata ccaaagaaga tatattactt 240

tttcttcaag ctctatgatc ctgaaaaaga agacctagga tatgtcngcc attttttt 298

<210> 4776

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-D10

<400> 4776

attttgagca ttcagaaaca caccaagcga agctacctag caacgactta acaacaatgg 60

ctaccaagat attagccctc cttgcgcttc ttgccctttt tgtgagcgca acaaatgcgt 120

tcattattcc acaatgctca cttgctccta gtgccattat accacagttc ctccgaccag 180

ttacttcaat gggcttcgaa cacctagctg tgcaagccta caagctacaa caagcgcttg 240

cggcgagcgt cttacaacaa ccaattaacc aattgcaaca acaatccttg gcacatctaa 300

ccatacaaac catcgcaaca caacagcaac aacagttcct accagcactg agccaactag 360

atgtggtgaa ccctgtcgcc tacttgcaac agcaggtgct tgcattc 407

<210> 4777

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-001-Q1-K2-D12

<400> 4777

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tcccttcttc ccccatacct tccatcaatg atagcttcag tatgtgaaaa cccagctctt 120
caaccctata ggctccaaca agcaatcgca gcaagcaaca tacctttatc acccttgttt 180
caacaatcgc cagccctatc tttgggtgcag tcattggtac aaaccatcaa ggcacagcag 240
ctgcagcaac tegtgtacc tgtgatcaac caagtagctc tggcaaacct ttctccctac 300
tatcagcaac aacaatttct tccattcaac caactatcta cactgaacct tgctgcttat 360
ttgcagcaac aactattacc attcagncag ctagctactg gctactctca tcaacaacaa 420
ctttttt 426

<210> 4778

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-D2

<400> 4778

attgagacta actagcagca tagaaagcac actagtgtac caacattggc agccaaaata 60
ttttgctcc taatgtcctt gggccttccg gcaggggctg ttacggcgac cattttcctg 120
catggttaga aggttctaata agcttccttt ttccccaga acttctatcc atcatagctt 180
tagtgttgtg aaacccaaat ctttaaacct atcagggtcc accaggcatt gacagctggc 240
atataacttt ataaaccttg gttcatccat cgatagtcac atctatgac 289

<210> 4779

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-D3

<400> 4779

gttccccctt cctgatcgtc ctgttcctca cagcagcagc catggcggcc gagccggaga 60
agcaggcggc ccccgcgga caggagacgg ccgtgcacat cgtgtacgtt gaccgccccg 120

aggacgccga ccctgaggag ttccacatcc gcaccctcac ccccgtcctc ggcagcgaac 180
 agaaggccag ggacgcagtg ctctaccact acaagaacgc cgccagcggc ttctccgcga 240
 agctcacccc ccagcaggtc aaggatctca aggagcaacc aggtgttctc caggttgtgc 300
 cgagccagac ttaccageta catggtcctg ggtctggcac tcaccagggc acgacacaca 360
 ccttgggcct tatgtgaagg cgtatgagaa tcaagaagac t 401

<210> 4780
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-D4

<400> 4780

ggcgcacatc ctgctgcac gagcagaacg aggagggtcg aggcaatgat gaccgcgtaa 60
 cactcatcaa ggactaccgt ggcgagattg aaactgagct caccacgac tgtgatggca 120
 tcctcaagct tctcgaatct caccttgaag ccgatttcac cgctcccag tccaatgtct 180
 actatctcaa gatgaatggc gactactaca gatactacga tgagttcaag actgaagctg 240
 agagaaagga cgctactgag aacacccatgg tggcatacat ggctgcacac gacattgctc 300
 aggatgatct tgctgcaact cagctatta cgcttggact gacactcaac ttgtcagtga 360
 tctactatga gattctcaac taaaccgac gctcatgcaa tcttgc 406

<210> 4781
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-D5

<400> 4781

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 cctcacactc ccgcccgcct ccggcgattc atccacccaa taaagtatcc aaccctaacg 120
 atccggatcg ccttaccctg cgtcatccac gcgaattgtt tcgattatcc tcggatttcc 180
 ccgttttttt gtgggtttcc tatcttcttc gatcggagtg ctagggtttg ggcgcgctcg 240
 gtgggcggcg tactccaggg tcatcgtag ttggacgggc taggggtgctt tctcaccggg 300

ggaaggggaag cgaatccaaa caatggagaa gaagaaggtg gcgatcccgc tgggtgtgcca 360
 cggtcactcg cggccggtgg tggatctctt ctacagcccc 400

<210> 4782
 <211> 393
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-001-Q1-K2-D6

<400> 4782

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 catccatcgt taacatgtat gtgaaatgtg gtcagatggg cgctgccatg aatgagttct 120
 ggaggatgcc aatccggaat gtggtttctt ggacaactgc gattgctggg tttgtgcaac 180
 aggaggaccc agtaaagtca atgctgctgc ttacagaaat gttgcggagt ggtgtggcaa 240
 ttaacaagta cacggctacg agcatattgc tcgcctgctc tcaaacgtcc atgatacggg 300
 aggctaata ngtgcacggc atgattataa agagcgagct gtacttggat catgtngtca 360
 aggangcttt gatttncaca tatgccaatg ctg 393

<210> 4783
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-C12

<400> 4783

gcaacataga aagcacaata gtgtaccaac aatggcagcc aaaatatattt gcctccttat 60
 gctccttggg ctttctgcaa gtgctgctac ggcgaccatt ttcccgcaat gctcgcaagc 120
 tcctatagct tcccttcttc ccccgtaact ctaccagcgg gtgtcttcgg tatgtgaaaa 180
 cccaattctt caaccctaca ggatccaaca ggcaatcgca gctggcatct tacctttatc 240
 acccttggtc ctccaacaat catcagccct attacaacag ttacctttgg tgcatttatt 300
 ggcacaaaac atcaaggcac aacaactaca acaacttggt ctagcaaacc ttgctggcta 360
 ctctcagcaa cagcagtttc t 381

<210> 4784
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-001-Q1-K2-A5

 <400> 4784

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 acaacaagag cctccacgat gtgagcgagt gataaacttc tagcactact ggccaacgca 120
 cagaagtaca ctgatacctgc accttaaccg aatgggtcca atgactacta ctataccagt 180
 ggatgagatc atgatatata acaggcaaca aaaacagcaa tgcccaatta ctgccactaa 240
 agctatcaac tacacggaga ctgttaacat accttaccag ttactatcga caacgtccta 300

<210> 4785
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-001-Q1-K2-A6

 <400> 4785

 ctagcaacat agaaagcaca atagtgtacc aacaatggca gctaaaatat tttgcctgct 60
 tatgtctcctt ggtctttctg caagtgtgc tacggcgacc attttccac aatgtcaca 120
 agctcctata gcttcccttc tcccccgta cctctacca acggtgtctt cggtatgtga 180
 aaaccaatt cttcaaccct acaggatcca acaggcaatc gcagctggca tcttaccttt 240
 atcacccttg ttcctccaac aatcatcagc cctattacag cagttacctt tgggtgcattt 300
 attggcacia aacatcaggg cacaacaact acaacaactt gtgctagcaa accttgctgc 360
 ctactctcag caacagcagt ttcttccatt caaccaacta gctgcattga actctgcttc 420
 ttattttgcaa caacaa 436

<210> 4786
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-001-Q1-K2-A7

 <400> 4786

cagccagcta gctgatgtga gccctgttgc cttcttgaca caacaacagt tgttgccgtt 60
ctacctgcac gctgcgccta acgctggcac cctcttataa ctgcaacaat tgctgccatt 120
caaccaactt gctttgacaa acccaacagc gttctaccaa caacccatca ttggtggtgc 180
cctcttttag attgcttatg agttatactt caataatgaa gttttttgga tgatgtttgt 240
ggcttcccag aaataagaaa gtacatttct agattcttaa aaaaaaaaaa aaaagcaaaa 300
aaagaaacaa aacaaaaaaaa cacaacaa 328

<210> 4787

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-A8

<400> 4787

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ttggtctttc tgcaagtgtc gctaccgcaa ccattttccc acaatgctca caagctccta 120
tagcttcctt tcttccccca tacctctcac cagcgggtgc ttcagtatgt gaaaacccaa 180
ttcttcaacc ctacaggatc caacaggcaa tcgcagcagg catcttacct ttatcacctt 240
tgttcctcca acaaccgtca gccctattac agcagttacc tttggtgcat ttggtggcac 300
aaaacatcaa ggcacaacaa ctacaacaac ttgtgctagg aaaccttgct gcctactctc 360
agcaacagca gtttcttcca ttcaaccaac tggctgcatt gaactctgct gcttatttgc 420
aacaacaact acc 433

<210> 4788

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-A9

<400> 4788

gtgggtgggt gaattgaact gttgctgctt gataaattgt agggtgaaaa cttgcctcga 60
atctattaca catgtatatg actcatcaag gcacatgtgc acacaagaaa catgtgtatt 120
ttgttgtgtg caagttgatg tggttacttc cctccaaata tgtaaattcc atatataact 180

atccaaacag gatattgaat ttgattcatg g 211

<210> 4789
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-B10

<400> 4789

cggacgcgtg ggctccctc gaaaccctag catagccact gccttcccgc acgetaggaa 60
ggggaagata tgggcgcga ggaggacgcc gctgcacgcc gcgagcgtct ccgcgccctt 120
cgtgccgcca aggaccttct ctccaccccc gacggcgccc caaccccttc caccgacgga 180
gaacaccagt aagatcacca cccccaccac gggaacttcc ctcttataa gaatcaaggc 240
atgctctcgt ttttcgtcat ggatcaaggc ttttcatcac taactcataa gaaatggcaa 300
ccatg 305

<210> 4790
<211> 232
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-001-Q1-K2-B11

<400> 4790

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gcctacgatg acggccatgg ggttctgggt gaccacgctc atctgtctcc tcgccggcgt 120
cgccgcatcc ctgttcacgc ttctatgctg caaccngggg ccctccacan acctattcca 180
tttgaccttg gtgactacag ctgtnatctg ttgatggatg atgcatgcta tc 232

<210> 4791
<211> 186
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-B12

<400> 4791

gtacgacacc gatagtatta ggcgacgccg ggtgagaaag cctagcgccg agtccgtag 60
atctccgggg cccttgcacg cggccgatca cgccaccaga tgcgtggtca gcgttgccgc 120
cgatcgacac ccccgacgac gggcgaccgt agcgacgtgg aggacaagat cgacccgatg 180
cggggc 186

<210> 4792
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-B2

<400> 4792

cgcagcgca gtgcggcgac agccagtcac aactcacac tccctcgacc gctctcgcc 60
ccgtccgct cgccgcagg cgaggaggca atggcgccg gcgggaatgg cgccggcggg 120
gacaccagg cgcccttcgc gcggatctac aagacgtca aggaggagct gctcaccgac 180
ccggccttcg agttcaccga ggagtcacgc cagtggatcg accgcatgg tgactacaat 240
gtactcggag gcaagtgtaa ccgtgggctc tctgtggtcg acagctacaa gctgctcaag 300
ggcgtgatg ctctgggcca ggaggaaacg ttccttgctt gcaccctcgg ctggtgcatt 360
gaatggcttc aggttttctt tcttgctt gatgatatca tggatgac 408

<210> 4793
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-B3

<400> 4793

tgcagtcatt ggtacaaacc atcagggcac agcagctgca gcaactcgtg ctacctgtga 60
tcaaccaagt agctctggca aacctttctc cctactctca gcaacaacaa tttcttccat 120
tcaaccaact gtctacactg aaccctgctg cttatttgca gcaacaacta ttaccattca 180
gccagctagc tactgcctac tctcagcaac aacaacttct tccatttaac caattggccg 240
cactgaaccc cgctgcttat ttgcagcagc aaatactact accatttagc cagctagctg 300
cagcaaaccg tgcttcttc ttgacacagc aacagttgct gcctttctac cagcagtttg 360

cggttaaccc cgcaaccctc ttacaactac aacaattggt gccctttgtc caacttgctt 420
tgacag 426

<210> 4794
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-B4

<400> 4794

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cttcttgccc ttttagtgag cgcaacaaat gcgttcatta ttccacagtg ctcacttgct 120
cctagtgccg gtattccaca gttcctccca ccagttactt caatgggctt cgaacatcca 180
gccgtgcaag cctacaggct acaactagcg cttgcggcga gcgccttaca acaaccaatt 240
gccaattgc aacaacaatc cttggcacat ctaaccctac aaaccattgc aacgcaacaa 300
caacaacaac agttttctgcc atcactgagc cacctagccg tgggtgaacct tgtcacctac 360
ttgcaacagc agctgcttgc atccaaacca cttgctctgg cgaacgtagc tgcataccaa 420
caacaaca 428

<210> 4795
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-001-Q1-K2-B6

<400> 4795

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tggcttccaa gacattatcc ctccttgccg ttcttgccct ttttgtgagt gcaacaaatg 120
cgttcattat tccacaatgc tcaattgctc cgagtgccat tattccacag ttctccctc 180
cagttacttc aatgggcttc gaacaccag ctgtgcaagc ctataggcta caacaagcgc 240
ttgcggcgag cgtcttagaa caaccaattg cccaattaca acaacaatcc ttggcacatc 300
taaccataca aaccatcgca acgcagcagc aacaagcact gagccaccta gccgtggtga 360
accctatcgc ctacttgcaa caacagctgc ttgcattcaa cncacttgct ttggcaaagc 420

tagctgcata ccaacaaca

439

<210> 4796

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-001-Q1-K2-B7

<400> 4796

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agcagccaga gccatcccct ctctctgcta cgcttcgctt cctcggcgcc gattctctct 120

cctctctctc caccctcgtc cgtcccttc cggcgcacga gctcggccga gatggcgaac 180

gcgagatcgg gtgtcgtgt gaacgatgag tgcattgctga agtttgccga gctgcagtcg 240

aagaggctgc accgcttcat aactttcaag atggacgaca agttcaagga gatagttgtg 300

gaccaggctg gngatcgcgc taccagctac gatgacttca caaacagcct ncctgagaat 360

gactgccgat acgcgatcta tgatttcgac 390

<210> 4797

<211> 188

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-B8

<400> 4797

tcactcggct cacactacta tcagcacgct atcatccaca gccatcccct ctctcacta 60

cccttcactt actcgcacc aatatctct cctactcctt caccctcttc ctccactac 120

tcactcacca gctctcccaa taatcctaac tccagatcta catgtcactt tcaacaatta 180

gcgcatac 188

<210> 4798

<211> 209

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-001-Q1-K2-B9

<400> 4798

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tcgtcgtgtg cctggctctg tcagctgccg gcgcctctgc aatgcagatg ccctgcccc 120
gcgcggngct gcagggttg taaggcgctg gcgcgggcct gacgacgatg atggngcgcc 180
gcgggctgta cccctacgag gactacctg 209

<210> 4799

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-C1

<400> 4799

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tgctccttgg tctttctgca agtgtgtgta ccgcaaccat tttcccacaa tgctcacaag 120
ctcctatagc ttcctttctt ccccatacc tctcaccagc ggtgtcttca gtatgtgaaa 180
acccaattct tcaaccctac aggatccaac aggcaatcgc agcaggcatc ttacctttat 240
cacccttggt cctccaacaa ccgtcagccc tattacagca gttacctttg gtgcatttgt 300
tggcacaaaa catcaaggca caacaactac aacaacttgt gctaggaaac cttgctgctt 360
actctcagca acagcagttt ctccattca accaactggc tgcattgaac tctgctgctt 420
atttgcaaca acaactacca ttca 444

<210> 4800

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-A4

<400> 4800

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ctccttggtc tttctgcaag tgctgctacg gcgaccattt tcccacaatg ctcaacagct 120
cctatagctt cctttcttcc cccgtacctc tcaccaacgg tgtcttcggt atgtgaaaac 180
ccaattcttc aaccctacag gatccaacag gcaatcgag ctggcatctt acctttatca 240

cccttgttcc tccaacaatc atcagcccta ttacagcagt tacctttggt gcattttattg 300
gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct tgctgcctac 360
tctcagcaac agcagtttct tccattcaac caactagctg cattgaactc tgctttcttat 420
ttgcaacaac aacaactacc att 443

<210> 4801

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-C10

<400> 4801

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cagatagcgc agcaactgac ggcgatgtgc ggcctgcagc agccgactcc atgcccctac 120
gctgctgccg gcggtgtccc ccaactgaaga aactatgtgc tgtagtatag ccgctggcta 180
gctagctagt tgagtcattt agcggcgatg attgagtaat aatgtgtcac gcatcaccat 240
gggtggcagt gtcagtgtga gcaatgacct gaatgaacaa ttgaaatgaa aagaaaaaaaa 300
gtactccatc tgttcc 316

<210> 4802

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K1-A9

<400> 4802

cgacccatgc gtccggtggt tgagtgaatt gaactgtagc tacttgatca atcgtagggt 60
gaaaacattg gtggaattta taacacatgt atatgactca tcaaggcaca tgtgcacaca 120
agaaacatgt gtattatgta gtgagcaagt tgaagtgggt actatcctcc aaatatgtaa 180
attccatata taactattca aacaggaaat tgaatttgat tcatgg 226

<210> 4803

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K1-B12

<400> 4803

ggccgacacc gcgcgtatta ggcgacgtcc ggtgagaaag cctagcgccg agtcgggggc 60
gtttccaggc cccttcgacg cgcgggatca cgcgaccaga tgcgtggtca gcgttgccgc 120
cgatcgagac ccccgacgac gggcgacggt agcgacgtgg atgacaagag cgacccgctg 180
ctggggcagg acccgc 196

<210> 4804

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K1-B9

<400> 4804

cgaagcggca gtgttttagag aggagcgctc aacagaacag catgaagatg gtcacggtc 60
tcttcaagtg cctggctctg tcagctgccg gcgcctctgc aatgcagatg ccctgcccct 120
gcgcggggct gcagggcttg tacggcgctg gcgcgggcct gacgacgatg atggcgccg 180
gcgggctgta ccctacgcg ga 202

<210> 4805

<211> 161

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K1-C10

<400> 4805

cgccagtcca tcttcgagca gcagccgtag aagccgccag gtcgcggggc tgttgccgac 60
gcttataaag cagcaaggga ccgcgatatg cgggctgcag caaccgactc catgccccga 120
cgctgctgcc ggcgaggtcc cccactgaac aaactatgtg c 161

<210> 4806

<211> 214

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-001-Q1-K1-C12

<400> 4806

ggagcacaga aagcacaaga gtggacctac aaacgcagac aaaagagaga gccnccagac 60
gctccaagga canccagcaa cngctgatac ggcgaccatg atccccgaaa gcgcgcaagc 120
accaatagcg accctgcagc ccccgaaact cacaccagcg agggctacag caagcgaaaa 180
ccaatacga caaccctaca ggaaccaaca ggca 214

<210> 4807

<211> 88

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K1-C9

<400> 4807

aaacatctac tattgggggtt ctcaaagatg caacagtgtc gatattaccg aattctgaat 60
tacgattgtt ctttgaggtt catttcat 88

<210> 4808

<211> 222

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-001-Q1-K1-D10

<400> 4808

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aaganccttc aagagattag ggctccttgc tcttcgtggg ctttttgtga gcgcaacaaa 120
tgcgtgcatt attccacaat gctcacttgc tcctagagcc agttatacca cagttgttgc 180
gaccagatac taggatgggc ttaagagctc ctagctgtgc aa 222

<210> 4809

<211> 178

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-001-Q1-K1-E12

<400> 4809

cgcacgcgtc cgcttaccac acacagatac ggccgcggcg gagcaaacgc aagccaganc 60
gtttgtaaga gggaaggagc cccatcaatg gggcacgtca acttctaccg caactatggc 120
aagacgttca agaaaccaat gcgtccttat gataaggagc gtcttgatgc tgaactga 178

<210> 4810

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K1-F10

<400> 4810

tcccagctac cccccgaccg cacaccacca gagacctcag caagagaaaa cccaaaactc 60
aaaccaaaaca cgagccaaca ggaaagcgca gccggcgaaa aacctggagc accccaacac 120
caacaacaag cagcagaccc aaaacacag agaccacaag agcacaaaaa gacacagaac 180
aacaaggcac aacaacaaca 200

<210> 4811

<211> 158

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-001-Q1-K1-F11

<400> 4811

gcggcagtgc gtatagagga tcgncaatca gaacagcatg aagatgggca tcgnncgcng 60
cttgtaacag gctctgacag ctgccaacgc ctgtgcaatg cagatgccct gccctgcac 120
ggggctgcaa ggcattgtaca gcactggcgc cggcctga 158

<210> 4812

<211> 102

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K1-F9

<400> 4812

acaagcgct atagcttccc ttcttcccc gtacctctca ccaacagtgt cctcggtatt 60

tgaaaaccca aaactttttac cctacacgaa ccaacaagcc aa 102

<210> 4813
<211> 231
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-001-Q1-K1-G10

<400> 4813

caccacgcg tccggcagca tagaaagtac aatagtgcac ctacaatggc agccaaaata 60
tcangcctcc cgangetctt aggactttca gcaaccgctg ctacggcgac cattttccca 120
caatgctcac aagctcctat agcttccctt cttcccccggt acctctcacc agcggagtca 180
tcggtatgta gaaaacccaa aactgcaacc caataggatc caacaggcaa a 231

<210> 4814
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K1-G11

<400> 4814

gcgacataga aagctcatta ctggaaatac aacgccagcc aaaatattta gcttcctgat 60
gcttctaaaa ctttctacaa gtgctactac cgcaaccatt ttcccacaat gctcacaagc 120
tcctatagct tcctttcttc cccatacct cttaccagcg gtgtcttcag tatgttaaaa 180
cccaattcta caaccctact agatccaaca agcaa 215

<210> 4815
<211> 140
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K1-G12

<400> 4815

taaacgcgac caaaagtcct caatactcac aagctcctat aactgcccta ataaccccat 60
acctaccatc aaagaccact aaaataagta aaaaccccac ccttaaacc tacaagctcc 120

aacaagcaaa tcacaacaaa

140

<210> 4816

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K1-G9

<400> 4816

tggaaagtgg aatctagtag caacaaataa gcaacaatgg cgaccaacat actgaccgac 60

cttatgcgaa atgctcggac tgcattgtgtt gcggacgcga caatcggccc tcaactgtca 120

caagctccca tagcttccct tcttccccca taccttccat caatgatagc tacaggatgt 180

gaaaacccag ctcttcaacc cgataggctc caacaagcaa acgcagctag caacata 237

<210> 4817

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K1-H10

<400> 4817

cccacgcgta cgggtccgcat tattattctc actggtctaa ttgctaacac agacagcagc 60

agctcctgct gactagctag acttctctat atttgctact gcaagtgtcc aagtctgcga 120

cgacgtccga gatgtcgacg gtgagccgtg catcccttga ccagaagctt gccctcgcca 180

agcgtgctc ccgagaggcg actcttgccg gagctaagc ggcagcagtg gcgactatcg 240

cctccgcgat tcccaccctc gcgagcgtgc ggatgctgcc gtgggccaag gcca 295

<210> 4818

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K1-A12

<400> 4818

agccattctc caatctgaag cgaatcagga gtgcacatct ttgtttaga ggcagagtt 60

tgctcagctg ctgctggaca ttggagagcg cagtgggtgt tgtacgcctg aaaggaattc 120

tttgtaaatt tcccctatat ctgggttctgt tatcatcatt attttccttg cgttagacaa 180
 taatgtcggga gaacgaatta gcagtaataa aaccagaggt acatcttctg ttgcacttcc 240
 tgttaattag agattaaatg ttgcattctt atcttgattg catcatttgg gcctaaatca 300
 actaatcaag tttattgggtg aactctgaca ggcattgaaa acttatatat ggcttcagtg 360
 ctttgatggc tccatacaac aagtggagga agaagttgcc atgttctggc ct 412

<210> 4819

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K1-H11

<400> 4819

agcaacatag aaagcacaat agtgaactaa caatggcagc caaaatattt tgcctggtga 60
 tgctccatgg tctttctgca agtgctgcta cggcgaccat tttcccgcaa tgctcgcaag 120
 ctcttatagc ttcccttctt ccccggtacc tctcaccagc ggtgtcttcg gtatgtgaaa 180
 acccaattct tcaacctac aggatccaac aggcaatcac agctggcatc ttacctttat 240
 cacccttggt cctccaacaa tcatcagccc tattacatca gttaccttg gtgcatttat 300
 tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcct 360
 actctcagca acagcagttt cttccattca accaactagc tgcattgaac tct 413

<210> 4820

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K1-H12

<400> 4820

ccgggaaccc atccacaatt ggtagctcgt tgatccaaat ccaagaccta cgtcaacgca 60
 ctgtctcgcc tgtagattg gtcgtcgacg tegtctgcta tgtccaggct gatggctgcc 120
 atgctgctcg gaggcgcgcg cgtcgccggc gccgcaaagc tcaccggtaa cggcaacgct 180
 gctggcatgc aggctcttcc catgccggcg tgcttccttc cgccgcgccc gcaggcagcg 240
 acctggaccc gcctctgctt gcaagctgcg ccaagatcgt cccaggcata cgacaacgcg 300

ccggaagacc ggagagaaat tggggacaag ttcaaagacg cggcggaaga ggcgaatgac 360
gccacctggg acgccaagga gcacgccaag 390

<210> 4821
<211> 337
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-001-Q1-K2-A1

<400> 4821

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gctccttggg ctttctgcaa gtgttgetac cgcaaccatt ttcccacaat gtcacaagc 120
tcctatagct tcccttcttc ccccatacct ctcaccagcg gtgtcttcaa tgtgtgaaac 180
cccaattgtt caaccctaca ggatccaaca ggcaatcgca acaggcatct taccattatc 240
acccttggtc cttcaacaac cgtcagccct attacagcag ttacctttgg tccatttggt 300
ggcacaaaac atcanggcac aacaactacc acaactt 337

<210> 4822
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-A10

<400> 4822

ctagcagccg cccggagctc cctctctgca gatctccctt cggagccgcc gaggaaccgg 60
ttcggagagc ggtagatggc tgaacaggag gcccagtcg cggttgaggc accaacccca 120
gttcttgggg agcctatgga cttgatgact gctctgcagc tcgtgatgaa gaagtcaagt 180
gtcatgacg gtcttgtgaa gggctctccg gaggctgaca atgccatcga gaagcacgcc 240
ggccaacttt gcgtgcttgc tgaagactgt gaacagccag attacgtcaa gttggtgaag 300
gcactctgcg ctgagcacia tgttcacct 329

<210> 4823
<211> 259
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-001-Q1-K2-A11

<400> 4823

cttcaagcag ctatagctag cataattaac tcatgggtgc atagagatat gccgncgacg 60
acccatatct atgggtccct ccccttgcaac tgcattctct tcttctctct cctcgacctc 120
cttcaattat tcttagtggt tgcttctccc ttccttgacc tttgcttgga accattgata 180
gttacttatt gngcatggag cacgtcatct caatggagga gatecctcgg cctttctgga 240
gctgctgcag cgcagcgca 259

<210> 4824
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-001-Q1-K2-A2

<400> 4824

tgtctnccga cgccgncgct aggttttgcg cctttgcctg catcactcgc tcattcggag 60
cccctctctt cgccggcgtc gtaagaagag atggcagagc gtttgacctg tatcgccata 120
gttagcgagg acaagtgcaa gcccaagaag tgccgccagg agtgcaagat gagctgcccc 180
gtcgtcaaga ctgggaagct ntgcattgaa gtgacttcgg cgtcgaaact cgctttcatt 240
tctgaggaac tgtgcatcgg ttgtggtatc tgtgtaaaga aatgccatt tgatgccatt 300
gaaatcatca accttgcaaa agacttgga aaggatacca ctcaccggtg tgggcctaata 360
accttcaagc tgcacaggtt gcctgtcccg agacctggc aggttttggg ccttggtgga 420
acaaat 426

<210> 4825
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K1-A10

<400> 4825

ctagcagccg cccttagctc cctcgactca gatctccctt cgcagccgcc gagggggggc 60

ttctcagagc ggaagatggc tgaacaggat gcccagtcg cggttgaggc accaacccca 120
gttcttgggg agcctatgga cttgatgact gctctgcagc tcgtgatgaa gaagtcaagt 180
gctcatgacg gtcttgtgaa gggctctccg gaggctgcc aaggccatcga gaagcacgcc 240
gctcagcttt gcgtgcttgc tgaggactgt gaccagccag attacgtcaa gtttggtgaa 300
ggcactctgc gctgagcaca atgttcacct ggtcactgta cctgccgctc agactcttgg 360
ctagtgggcc gggctttgca agattgactt 390

<210> 4826

<211> 146

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-001-Q1-K1-E11

<400> 4826

ggcggctgcg gacttgetca gcatgcgtac cagcgcgcgc gcggcgccca ggcaccggca 60
tcttttagca ccgcgggggc acgntatattt cgctcgtcgt gtgcgccagc gccagcatga 120
acgttgtctt catcggcgcc gagatg 146

<210> 4827

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-A12

<400> 4827

aagccattct ccaatctgaa ggcgaaacaa ggagtgcaca tctttgttgt agagggcaga 60
gtttgtcag ctgctgctgg acattggaga ggcagtggt ggttgtagc ctgaaaggaa 120
ttctttgtaa attacccta tatctggttc tgctatcatc attattttcc ttgcgttaga 180
caataatgtc ggagaacgaa ttagcagtaa taaaaccaga ggtacatctg ctgttgact 240
tactgttaat tagagattaa atgttgcaat cttatcttga ttgcatcatt tgggcctaaa 300
tcaactaatc aagtttattg gtgaactctt acaggcattg aaaacttata ttg 354

<210> 4828

<211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-001-Q1-K2-B5
 <400> 4828

tagaaagcac aatagtgtac caacaatggc agccaaaata ttttgcttcc ttatgctcct 60
 tgggtctttct gcaagtgetg ctaccgcaac cattttccca caatgctcac aagctcctat 120
 agcttccttt cttcccccat acctctcacc agcgggtgtct tcagtatgtg aaaacccaat 180
 tcttcaaccc tacaggatcc aacaggcaat cgcagcaggc atcttacctt tatcaccctt 240
 gttcctccaa caaccgtcag ccttattaca gcagttacct ttggtgcatt tgttggcaca 300
 aaacatcaag gcacaacaac tacaacaact tgtgctagga aaccttgctg cctactctca 360
 gcaacagcag tttcttccat tcaaccaact ggetgcattg aactctgctg cttatttgca 420
 acaacaacta ccattc 436

<210> 4829
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-001-Q1-K2-D1
 <400> 4829

aagcaacata gaaagtggaa tccagtagca acaatagagc aacaatggcg accaagatac 60
 tttccctcct tatgctcctt gctctttctg catgtgttgc taacgcgaca attttccttc 120
 aatgctcaca agctcctata gcttcccttc ttccccata ccttccatca atgatagctt 180
 cagtatgtga aaaccagct cttcaaccct ataggctcca acaagcaatc gcagcaagca 240
 acataccttt atcacccttg tttcaacaat cgccagccct atctttggtg cagtattggg 300
 taaaaaceat caaggcacag cagctgcagc aactcgtgct acctgtgatc aaccaagtag 360
 ctctggcaaa cttttcntcc tactatcagc aacaacaatt tcttccattc aaccaactat 420
 ctacact 427

<210> 4830
 <211> 271

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-001-Q1-K2-E3

 <400> 4830

 taaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaagg 60
 gaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aattaaaaaa aaaaaaatga 120
 ataaaaaaag aaaaaaatat ataaacttaa aaaaaaaaaa aaaatagata aaaaaaaaat 180
 gaaaaggggg tgcccttttt aagaaattat atatttgtgc cgtgtcctga gaaaatctaa 240
 cttttttaat aggcccctga aatataaatt g 271

<210> 4831
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-001-Q1-K2-G9

 <400> 4831

 tagaaagtgg aatccagtag caacaataga gcaacaatgg cgaccaagat actttccctg 60
 cttatgctcc ttgctctttc tgcattgtgt gctaacgcga caattttccc tcaatgctca 120
 caagctccta tagcttccct tctttcacca taccttccat caatgatagc ttcagtatgt 180
 gaaaaccag ctcttcaacc ctataggctc caacaagcaa tcgcagcaag caacatacct 240
 ttatcacctc tgtttcaaca atcgccagcc ctatctttgg tgcaatcatt ggtacaaacc 300
 atcaaggcac atcaactgca acaactcgtg ctacctgtga tcaaccaagt aacttttggc 360
 aacctttctt cctactatca gcaacaacaa tttctttcat tcaaccaact atctacactg 420
 aacccttctg ctta 434

<210> 4832
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-002-Q1-K2-B4

 <400> 4832

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 ttgccatcct tgcctcctt gctctttcag caagcggtgc taccgcgact attattccac 120
 aatgctcaca acaatacctc tctccggtga cagccgagag atttgaatac ccaactatac 180
 aatcctacag gctacaagag gccatcgag caagcatctt acggtcgtta gcattgaccg 240
 tccaacaacc atatgcccta ttgcaacaac catccttaat gaatctatat ctccaagaa 300
 tcgcagcaca acaactacaa caacagttgc ttncacaat caatcaagta gttgcagcga 360
 accttgctgc ttacctncag caacaacaat ttcttccatt caatcaac 408

<210> 4833
 <211> 51
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-E5

<400> 4833

tgaacattca taaatcacac ctatccattc tcacaatcac caacacaaca a 51

<210> 4834
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-E7

<400> 4834

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 cgcttcttgc ccttttagtg agcgcaacaa atgcgttcat tattccacag tgctcacttg 120
 ctctagtgc cattattcca cagttcctcc caccagttac ttcaatgggc ttcgaacatc 180
 cagccgtgca agcctacagg ctacaactag cgcttgccgc gagcgcctta caacaaccaa 240
 ttgccaatt gcaacaacaa tccttggcac atctaaccct acaaaccatt gcaacgcac 300
 aacaacaaca acaacagttt ctgccatcac tgagccacct agccgtggtg aaccctg 357

<210> 4835
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-G10

<400> 4835

acagcagtta cctttggtgc atttggtggc acaaagcatc aaggcacaac aactacaaca 60
acttggtgcta cgaaaccttg ctgcctactc tcagcaacag caggttcttc cattcaacca 120
actggctgca ttgaactatg ctgcttattt gcaacaacaa ctaccattca gtcagctagc 180
tgctgcctac cccagcaat ttcttccatt caaccaactg gcagcattga actctgctgc 240
ttatttaca cagcaacagc taccaccatt cagccagcta gctgatgtga gccctgttgc 300
cttcttgaca caacaacagt tggtgcc 327

<210> 4836

<211> 328

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-003-Q1-K1-A2

<400> 4836

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tctcaaacga gtcagattt ctgagcagaa tacatattga acttagcgca attgaaccga 120
aagaaaaaaaa gaagggccta caaagagaat gacgggtgct ntccttcggt ccacgagcag 180
gggggggtggg ggcttttgaa aaaacaaaca ccgagctctt tcttttcta gctgcaatta 240
gtgtccaggg agaaagggt gaaactggac aaactggctg gcacatggta accaatgggt 300
ctctaaaatc tgaattccgg gtcaacgt 328

<210> 4837

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-C1

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ctagctgcat tgaactctgc ttcttatttg caacaacaac aactaccatt cagccagcta 180

cctgttgccct accccaaca atttcttcca ttcaaccaac tggcagcatt gaactctcct 240
gcttattttac agcagcaaca actactacca ttcagccagc tagctggtgt gagccctgct 300
accttcttga cac 313

<210> 4838

<211> 174

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-G11

<400> 4838

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tacatacaca tcaacctagg catacatgcg agagtcgcg tgatcatgtgg atcaagcaca 120
catgatcaga ggcctgacga ccggagtgtg gcatcagctc tctctctctt gcat 174

<210> 4839

<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-004-Q1-K1-E12

<400> 4839

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<210> 4840

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-E5

<400> 4840

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ggagccaaga ttgtttccct ccttgccctc cttgctcttt cagcaagcgc tgctacctct 120
actattattc cacaatgctc acaacaatac ctctctccgg tgacagccgc gggatttcaa 180
cacccaacta tacaatccta catgctacat gaggccatcg tagcaagcat cttacgggtca 240
ttagcattaa cctccaaca gccatatgcc ctattgcaac aaccatcctt agtgcattctg 300

tatctccaaa gaatcgcgac acaacaacta caacaacagt tgctaccaac aatcaatcaa 360
gcacaacaac tactaccatt taaccaactt gtcgggagcc ctgatg 406

<210> 4841
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-F1

<400> 4841

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gcaacaatct gatgtggctg acagagaacc cagtctgat aatcatgtgg ccaatcctga 120
tctggatgtt gtatcgcaga ccacagatga agtgaaggct gaaacacctg ccaactgaaaa 180
ggcaggtcaa gttgagaaaag tcgtttcagg taaaggaaaag gaaaacagag ggaaagacat 240
cgtgagaaaac tcatacaaaa cagaacttgc aaggcaaatt ttgctcagtt tcattgtaaa 300
gtcagtgcac gacagtttag gttccgcccc agctgaacca gaaaggaagc caagtggatc 360
agatgaagc 369

<210> 4842
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-005-Q1-K1-G9

<400> 4842

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cccacaatgc tcacaagctc ctatagcttc ctttcttccc ccgtacctct caccagcggc 180
gtcttcggta tgtgaaaacc caattcttca accctatagg atccaacagg caatcgcagc 240
tggcatctta cctttatcac ccttgttcct ccaacaatca tcagccctat tacagcagtt 300
acctttggtg catattattgg cacaaaacat cagggcacaa caactacaac aacttgtgc 359

<210> 4843
<211> 431

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-007-Q1-K1-A3
 <400> 4843

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acccctgctc ccgtcgtcag ggtggcggcg ccgcgcggag tcgcctcgcc gtccgctggc    120
gccgcgtgca gggccgcggg caaggggaag gaggtgctca gcggggtcgt gttccagccc    180
ttcgaggaga tcaaggggga gctcgccctc gtgccccagt cccagacaa gtcgctcgcg    240
cgccacaagt tcgtcgatga ctgcgaggcc gccctcaacg agcagatcaa cgtggagtac    300
aacgcctcgt atgcatacca ctccctcttc gcctatttcg accgcgacaa cgtggctctc    360
aaaggatttg ccaagttctt caaggaatcc agcgacgagg agaggagca cgctgaaaag    420
ctcatggagt a                                                                431
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<210> 4844
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-007-Q1-K1-H1
 <400> 4844

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ctggccgcaa gggctgcgcc ggtaaccata ccatacaaac gcacagatgc tacgatagca    120
tagcttcctt tcttgcaccg cacatcaaac cagccgtggc tacgggaaaa cccaacccaa    180
caaccctacc cgacccgacc cgccatgcca gcacagatgg caccttaacc aactagcct    240
cgccaacact actcagacct atcacagcac ataccttacc tgcagtgaat ggatcggcac    300
atcacatcac agcacctcca cca                                                                323
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<210> 4845
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-008-Q1-K1-D11
 <400> 4845

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gaaccctgtc gcctacttgc aacagcaggt gcttgcaccc aaccacttg ctctggcaaa 120
cgtagctgca taccaacaac aacaacaatt gcaacagttt ctgccagcgc tcagtcaact 180
agccatggtg aaccctgccg cctacctaca acagcaacaa ctgctttcat ctagccctct 240
cggtgtgggt aatgcaccta catacctgca acaacaattg ctgcaacaga ttgtaccagc 300
tctgactcag ctagctgtgg caaaccctgc tgcctacttg caacagctgc ttccattcaa 360
ccaactgact gtgtcgaact ctgctgcgta cctacaacag cgacaacagt tacttaa 417

<210> 4846
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-008-Q1-K1-G10

<400> 4846

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tgccgttcta ccagcacgct ggcctaacg ctggcaccct cttacaactg caacaattgc 120
tgccattcaa ccaacttgct ttgacaaacc tagcagtgtt ctaccaacaa cccatcattg 180
gtgggtgccct ctttttagatt tcttatgagt tatagttcaa taataaagtt ttttgtctg 239

<210> 4847
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-009-Q1-K1-C3

<400> 4847

gacggaaact agtgtgtgat gttgatctag cagcggaata ataatgagtc aactggggcc 60
ggttgggtcta gggatttgca attgctttga gtgcctgtac cgggtcaaacg ttgctccct 120
cctacatacg ggtgaacaca tgaagcatgc aatgtagctg tttggagcat tactgtgctc 180
tgagagaatt gatctctgta aatacatcat tgatgcatac aaaaaattat gggtcgagca 240
cggtgatgag ctgagcctgg agtatgctgg ctcttatgct ttgaaagggg atctagttag 300
atatggaagg cacacattgg ctggactcat taaagatggc atgattgctc tttcaagata 360

ttattcgaat aattttcatg a

381

<210> 4848

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-009-Q1-K1-H12

<400> 4848

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acaggtgctg atgtgacttt gctttgtaca tgggctaact ctgttggtgg aaaatctgaa 120

ctcaccggat atcattccaa ctccagtatg atagaaaagg atgggtgttca tggcatacta 180

ttacatcaca gaacagcaga tgggtcaacca catgtaactt ttgtgatagc agcacacgag 240

aaagaggata tccttatatc tgaatgtcct tactttgtga tatctgggag ctccgcatct 300

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cttgatcc 368

<210> 4849

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-009-Q1-K1-H4

<400> 4849

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agactaagcg ccgccatctg atccgacacg cagcgcaatg gcggcgggac tgaagaggcc 120

gtcggtcggg acgcgggcgt ggcggctgct gctgctggcg gtgctgtggg cgcggaaggg 180

cggcgcgggc cacagcctgc gcctgcgcct gctccgcacg ctccgccgcc acggtcacgg 240

cctcgccggc ctgggctggt cgcgcgggta ccggctccgc tgcagcgagc gcgag 295

<210> 4850

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-010-Q1-K1-A12

<400> 4850

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aatattttgc ctcccttatgc tccttgggtct ttctgcaagt gctgctacgg cgaccatttt 120
cccgcaatgc tcgcaagctc ctatagcttc ccttcttccc ccgtacctct caccagcggg 180
gtcttcggta tgtgaaaacc caattcttca accctacagg atccaacagg caatcacagc 240
tggcatctta cctttatcac ccttggttctt ccaacaatca tcagccctat tacatcagtt 300
acctttggtg caattattgg cacaaaacat cagggcacaa caactacaac aacttgtgct 360
agcaaacctt gctgcctact ctacagcaaca gcaggttctt ccattcaacc aactagctgc 420
attgaactct gcttcttatt tgcaacaaca acaact 456

<210> 4851

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-010-Q1-K1-B11

<400> 4851

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ccggggggcaa gagagagaga gagagccatg gggcgggacc agcagccgca gctgcaggag 120
gagatgaacg acgctgccgg cggcggcctc aggctgcctc cagggttccg cttccacccg 180
agcgacttcg agattgtcag cttctacctc accaacaagg tgctcaacac gcgcttcacc 240
tgcaccgnca tcacggaagc cgacctaac aagattgagc catgggaccc tccgagcaaa 300
gcaaaaatgg cgagaaagga gtgggtacttc ttctaccaga aggaccgcaa gtacccgacg 360
gggctgaggg cgaaccgggc caccgaggcc ggttactgga aggcgacggg caaggacaag 420
gaggtctaca acg 433

<210> 4852

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-010-Q1-K1-F9

<400> 4852

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atgtctcttg gtctttctgc aagtgtgtct accgcaacca ttttcccaca atgtccacaa 120
gtctctatag ctctctttct tccccatac ctctcaccag cgggtgtcttc agtatgtgaa 180
aaccaattc ttcaacccta caggatccaa caggcaatcg cagcaggcat cttaccttta 240
tcacccttgt tctccaaca accgtcagcc ctattacagc agttaccttt ggtgcatttg 300
ttggcacaaa acatcaaagc acaacaacta caacaactng tgctaggaaa ccttgctgcc 360
tactctcagc aacagcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420
tatttgcaac aacaacta 438

<210> 4853

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-011-Q1-K1-C5

<400> 4853

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tgggtctttct gcaagtgtct ctaccgcaac cattttccca caatgtccac aagctcctat 120
agcttctctt cttcccccat acctctcacc agcgggtgtct tcagtatgtg aaaaccaat 180
tcttcaacct tacaggatcc aacaggcaat cgcagcaggc atcttacctt tatcaccctt 240
gttctctcaa caaccgtcag ccctattaca gcagttacct ttgggtgcata tgttggcaca 300
taacatcaag gcacatcaac tacaacaact tgtgctagga aaccatgatg cctactctga 360
acaacagcag gtggtaccat tcaac 385

<210> 4854

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-011-Q1-K1-F6

<400> 4854

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atgctccttg gtctttctgc aagtgctgct acggcgacca ttttcccaca atgctcacia 120
 gctcctatag cttcccttct tccccgtac ctctcaccag cgggtgtcttc ggtatgtgaa 180
 aaccaaatte ttcaacccta taggatccaa caggcaatcg cagctggcat cttaccttta 240
 tcacccttgt tctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300
 ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360
 tactctcagc aacaacagtt tcttccattc aaccaactag ctgcattgaa ctctgc 416

<210> 4855

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-011-Q1-K1-H9

<400> 4855

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 cgagcaagat attttccctc cttatgctcc ttgctctttc tgcatgtgtt gctaacgcga 120
 caattttccc tcaatgctca caagctccta tagcttccct tcttccccca taccttccat 180
 caatgatagc ttcagtatgt gaaaaccag ctcttcagcc ctataggctc caacaagcaa 240
 tcgcagcaag caacatacct ttatcacctt tggtgtttca acaatcgcca gccctatctt 300
 tgggtgcagtc attggtacaa accatcaagg cacagcagct gcagcaactc gtgctacctg 360
 tgatcaaacc agtaactctg gcaaaccctt ctcctactc tcagcaacca caatttcttc 420
 ca 422

<210> 4856

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-012-Q1-K1-C10

<400> 4856

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 gctcctatag cttcccttct tccccatac ctctcaccag cgggtgtcttc agtatgtgaa 180

aaccaaatc ttcaacccta caggatccaa catgcaatcg cagcaggcat cttaccttta 240
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 ttggcacaga acatcaaggc acaacaacta caacaacttg tgctaggaaa ccttgctgcc 360
 tactctcagc aacagcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420
 tat 423

<210> 4857
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-013-Q1-K1-D7

<400> 4857

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 gctcctatag cttcccttct tccccgtac ctctcaccag cgggtgtcttc ggtatgtgaa 180
 aaccaaatc ttcaacccta caggatccaa caggcaatca gacctattac atcagttacc 240
 tttggtgcat ttattggcac aaaacatcag ggcaacaaca ctacaacaac ttgtgctagc 300
 aaaccttgct gcctactctc agcaacagca gtttc 335

<210> 4858
 <211> 366
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-013-Q1-K1-F3

<400> 4858

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 tcccttcttc ccccgtaact ctaccagcg gtgtcttcgg tatgtgaaaa cccaattctt 180
 caaccctaca ggatccaaca ggcaatcgca gctggcatct tacctttatc acccttggtc 240
 ctccaacaat catcagccct attacagcag ttacctttgg tgcatttatt ggacanaac 300

atcagggcac agcaactaca acaacttgtg ctagcaaacc ttgctgccta ctctcagcaa 360
cagcag 366

<210> 4859

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-013-Q1-K1-F9

<400> 4859

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aatgctcaca agctcctata gcttcccttc tttcccccata ccttccatca atgatagctt 180
cagtatgtga aaaccagct cttcaaccct ataggctcca acaagcaatc gcagcaagca 240
acataccttt atcacccttg tttcaacaat cgccagccct atctttggtg cagtcattgg 300
tacaaaccat caaggcacag cagctgcagc aactcgtgct acctgtgatc aaccaagtag 360
ctctggcaaa cttttctgcc tactatcagc aacaacaatt tct 403

<210> 4860

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-014-Q1-K1-B1

<400> 4860

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cctatagctt cccttcttcc cccgtacctc tcaccagcgg tgtcttcggt atgtgaaaac 180
ccaattcttc aaccctatag gatccaacag gcaatcgcag ctggcatctt acctttatca 240
cccttggttc tccaacaatc atcagcccta ttacagcagt tacctttggt gcattttattg 300
gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct tgctgcctac 360
tctcagcaac aacagtttct tccattcaac caactagctg cattgaactc tgcttcttat 420
ttgcaacaac a 431

<210> 4861
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-014-Q1-K1-E2

<400> 4861

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 tgggtgccct tttggggagt gcaccaaagt cgttcattat tccacaatgc tcacttgctc 120
 cgagtgccat tattccacag ttctccctc cagttacttc aatgggctta gaacaccag 180
 ctgtgcaagc ctataggcta caacaagcgc ttgcggcgag cgtcttagaa caaccaattg 240
 cccaattaca acaacaatcc ttggcacatc taaccatata aaccatcgca acgcagcatc 300
 aacaagcact gagccaccta gccgtggtga accctatcgc ctacttgcaa caacagctgc 360
 ttgcatccaa cccacttgct ttggcaaacg tagctgcata ccaaccacaa caacagttgc 420
 aacag 425

<210> 4862
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-014-Q1-K1-F2

<400> 4862

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 tttccctcct tatgctcctt gctctttcta catgtgttgc taacgcgaca attttccctc 120
 aatgctcaca agctcctata gcttcccttc ttccccata ccttccatca attatagctt 180
 cagtatgtga aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcatgca 240
 acataccttt atcgcccttg ttgcttcaac aatcaccagc cctatctttg gtgcagtcac 300
 tgggtacaaac catcagggca caacagctgc agcaactcgt gctacctgtg atcaaccaag 360
 tagctctggc aaacctttct cctactctc agcatcaaca atttcttcca ttcaaccaac 420
 tgtctacact g 431

<210> 4863

<211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-015-Q1-K1-B9

 <400> 4863

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 tgggtctttct gcaagtgtgt ctacggcgag cattttcccg caatgctcac aagctcctat 120
 agcttccctt ctcccccat acctctcacc agcgatgtct tcagtatgtg aaaatccaat 180
 tcttctaccc tacaggatcc aacaggcaat cgcagcaggc atcttacctt tatcaccctt 240
 gttcctccaa caatcatcag ccctattaca gcagttacct ttgggtgcatt tattggcaca 300
 aaacatcagg gcacaacaac tacaacaact cgtgctagca aaccttgctg cctactctca 360
 gcaacagcag ttacctttgg tgcatttgtt ggacaaaac atcagggcac aacaactaca 420
 acaactcgtg ctagc 435

<210> 4864
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-015-Q1-K1-D7

 <400> 4864

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 aacagggtcaa gaacaacgga agggaggagg ggggagaaca tgacaaattg gagccgtgca 120
 cgaacaccaa cgaaaacaaa tggggggacg atagacccta tggggatgga cgaattgtta 180
 attgccattt attattgaac catgctagac tgaaagttag aaggggcat gccccggggg 240
 ggcgggatgg ggccttgcgc gatcctcgac gtcctttggc ccggctactc catagaggag 300
 gacagggact gcacgtacta cgcggaatta ccgtacgcaa accactcgct ggtggctgca 360
 ggctacga 368

<210> 4865
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-015-Q1-K1-D9

<400> 4865

aagcaacata gaaagtggaa tccagtagca acaacagagc aacaatggcg accaagatat 60
tttccctcct tatgtctcctt gctctttctg catgtgttgc taacgcgaca attttccctc 120
aatgctcaca agctcctata gcttcccttc ttccccata ctttccatca atgatagctt 180
cagtatgtga aaaccagct cttcagccct atagggtcca acaagcaatc gcagcaagca 240
acataccttt atcacccttg ttgtttcaac aatcgccagc cctatctttg gtgcagtcac 300
tggtacaaac catcagggca cagcagctgc agcaactcgt gctacctgtg atcaaccaag 360
tagctctggc aaacctttct cctactctc agcaacaaca atttcttcca ttcaaccaac 420
tgtctacact gaaccct 437

<210> 4866

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-016-Q1-K1-G5

<400> 4866

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gttggcgatg cattcgatga gctgaacatt cctagtatgg gaggtgcatg tgtgtattga 120
gctaaagtcc gatgtcggtc ttatggcaga tgggtgcgga ctgctggcac ttggactact 180
gccatgcttg cgcgatcatt tgaacaatgt acgacatcag cacaatgctc tggaacgcca 240
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<210> 4867

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-016-Q1-K1-G6

<400> 4867

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gttagagatg catctgttgc gctgaacata gcgagtatgg gaggtgcatg tctatatgtt 120

agataatgtc tgatgtgggc cagatgagac agatgtgcgg gagggctggc acctgcaata 180
 ctgtcatgct ggagcgatca tttgaacact gtacgtcatc agcataatgc tatggaacgc 240
 ccgatatac ggtctggatg atccgagctt acatactcgt acgtgcaagc ttatattgct 300
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<210> 4868

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-017-Q1-K1-C7

<400> 4868

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 cacagtgccca ggcgctgcag cagcagtgtc gccaccagat caggcaggtg gagccgctgc 180
 accggtacca ggcgacatac ggtgtggtcc tgcagtcctt cctgcagcag cagccgcc 238

<210> 4869

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-017-Q1-K1-G10

<400> 4869

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 tcgtgcgccc ctgcagctcc ctattcggca aaatgtgtgg accagtgtc atcgcgtgtt 120
 gggaagatcg gcaccgatgt tcttgccaaa tattgattgt ttgattntgg ggagatcgac 180
 gcacgcattg tgttcgatga atggctcaaa ccgatagcc ttgtcgaaat catagctccg 240
 agtcgattcg gacatggtag gtgaattaac cagcgatgc ggagaaccag aactgatcga 300
 ccacaagatg gtgctgatga acggaactgg agatggacag acgaagcaag tatcgggaca 360
 aaggatgggc ttcaagtgat 380

<210> 4870

<211> 390

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-017-Q1-K1-H12
 <400> 4870

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 agacgtcgtg gcctgaggtg gtcgggctga gcgtaggagga cgccaagaag gtgacacctca 180
 aggacaagcc ggacgccgac atcgtggtgc tgcccgtcgg ctccgtggtg accgcggatt 240
 atcgccctaa ccgtgtccgc atcttcgtcg acatcgtcgc ccagacgccc cacatcggct 300
 gataatatat aagctagccg ctatttcctt tccttgcccc agaacttgaa ataaatatat 360
 atacgatgaa ataacgcggg catgccgaat 390

<210> 4871
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-018-Q1-K1-E1
 <400> 4871

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 tttgctcct tatgtcctt gctctttcta catgtgttgc taacgcgaca attttcctc 120
 aatgtcaca agctcctata gcttccttc tcccccata ctttccatca attatagctt 180
 caatatgtga aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca 240
 acataccttt atcgcccttg ttgtttcaac aatcgccagc cctatctttg gtgcagtcac 300
 tggtagaaaac catcagggca caacagctgc agcaactcgt gctacctctg atcaaccaag 360
 tagctctggc aaacctttct cctactctc agcaacaaca atttcttcca ttcaaccaac 420
 tgtctacact gaaccctg 438

<210> 4872
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-020-Q1-K1-A12

<400> 4872

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acattgcaag accccaagtg ttctttcttat actaccaaca agagagctgg ccaatcaggt 180
gcacgctgac tttcagtttt atgggtgcaac atttgggctc tctgcatgtt gcgtgaatgg 240
gggatcacct tatcggcctc aagaaatggc attgagaaca ggtgaggcta ttgttagtgc 300
aactcctggg cgtgtcaagg attccatcgc taaaggaact ttcaatttga aatgcttgaa 360
attccgtagt cttgatgaat ctgaagagat gctaaacatg g 401

<210> 4873

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-020-Q1-K1-A5

<400> 4873

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atggcgacca agatattttc ccttcttatg cttcttgctc tttctacatg ggggtggtaac 120
gcgacaaatt tcccttaatg gtcacaagct tctatagctt gccttctttc cccatacctt 180
tcatcaatta ttggttcaac atgtgaaaac ccaacttttc aaccatattg gcttcaacaa 240
gcaatcgcag gaagcaacat acctttatcg gccttggtgt ttcaacaatc accaacccta 300
tctttggtgc agtcattggg acaaaccatc aggggacaac agcttcagca acttggtgta 360
cctg 364

<210> 4874

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-020-Q1-K1-B2

<400> 4874

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aggcctaact aaccctagga ggcatgcggc ggcgggggatg gtgtactacg cgctggtggg 120

gggcgcgagg ctggatggcc tcaccaacct gcagccccgc cacggctgcg acgaccccaa 180
 cttaccctac tacctcaagc tcaagtgcga gaactgccgc gaggtcaccg tcaagtccac 240
 ctacgtcacc ctacgcgagc aagtcgacct gcccaaagga cacggcgccg ctcacctcgt 300
 ccagaagtgc aagctttgtg ggagagatgg aacaattgtg atgattcctg gtcaggggac 360
 accacttact attgagcaga gccagaaaga ggagaagact tgcttgatgg tgtttgactg 420
 cataggctat g 431

<210> 4875

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-021-Q1-K1-A12

<400> 4875

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 tatagaagcg gaggtacaa tgcttggtca gccaatgagc atggttttgc ctgggtgttg 120
 tggcttcaag ttaactggga agttacggag tgggtgtcag gccactgatc ttgttcttac 180
 agtaacacaa atgctaagga aacatgggtg tggtggcaaa tttgttgaat tctatgggtg 240
 aggtatgggt aagctgtctt tagctgacag ggccacaatt gcgaacatgt caccagaata 300
 tggagctacc atgggcttct ttcctgtgga ccatgtgaca ttggattacc ttaaactgac 360
 aggccgcagt gatgaaactg tgtcaatgat tgaagcatac ctgcgagcca ataaaatgtt 420
 tgtggactac aatga 435

<210> 4876

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-021-Q1-K1-A9

<400> 4876

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 cctatagctt cctttcttcc cccgtacctc tcaccaacgg tgtcttcggg atgtgaaaac 180

ccaattcttc aaccctacag gatccaacag gcaatcgag ctggcatctt acctttatca 240
cccttggtcc tacaacaatc atcagcccta ttacagcagt tacctttggt gcattttattg 300
gcacaaaaca tcatggcaca acaactacaa caaacttggg ctagcaaacc tt 352

<210> 4877

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-022-Q1-K1-A6

<400> 4877

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tttccctcct tatgtctctt gctctttcta catgtgttgc taacgcgaca attttccctc 120
aatgtctaca agctcctata gcttcccttc tcccccata ctttccatca attatagctt 180
cagtatgtga aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca 240
acataccttt atcgcccttg ttgtttcaac aatcaccagc cctatctttg gtgcagtcac 300
tgggtacaaac catcaaggca caacagctgc agcaactcgt gctacctgtg atcaaccaag 360
tagctctggc aaacctttct cctactctc agcaacaaca atttct 406

<210> 4878

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-022-Q1-K1-F4

<400> 4878

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atgtccttg gtctttctgc aagtgtgct acggcgacca ttttcccgca atgtcgcgaa 120
gtcctatag cttcccttct tccccgtac ctctcaccag cgggtgtcttc ggtatgtgaa 180
aaccaaatc ttcaacccta caggatccaa caggcaatca cagctggcat cttaccttta 240
tcacccttgt tctccaaca atcatcagcc ctattacatc agttaccttt ggtgcattta 300
ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagc 347

<210> 4879

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-023-Q1-K1-A5

<400> 4879

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aactgtaaga ccaaggttgt tgggtgtgcca gtttcattga atggtgacct caagaaccag 180
tttgttgaaa caacagttgg atttgataca gtatgtaagg ttaattcaca gcttgtaagc 240
aatgtttgtc ttgatgcat ctcagctgga aagtactatt attttgttcg tctgatggga 300
cgaaaagcat ctcatgttgc ctttgaatgt gcaacttcagt cacacccaaa catgctcatc 360
ttaggcgagg aggtagcatt gtcaaaactc aactgatgg aaattataag caagatat 418

<210> 4880

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-023-Q1-K1-E3

<400> 4880

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cctgttgcca cccctgccga cacccaacag aaggcatccg ctggcgatgg catactgctc 120
gacgacgcca cttcataccg tagtatcgtc ggcgccttgc agtacttgac gatcacccgt 180
ccggacattg cctacgccgt gcagcaggtg tgtctccaca tgcacgcgcc gcgggacgtg 240
catctcacca tgctcaagcg tattctccgg tacatcaagg gcaccatcca cttcggcatc 300
cagctgcgca ctgcctcgcc ttcgacgata actgcatact ccgacgccga ctgggcaggc 360
tgccccgaca caggcgctc tacatcgggt ttctgcatct tcttcggcaa ctccctcgtc 420
tcatg 425

<210> 4881

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-023-Q1-K1-E5

<400> 4881

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atgctccttg gtctttctgc aagtgttget accgcaacca ttttcccaca atgctcacaa 120
gctcctatag cttcccttct tccccatac ctctcaccag cgggtgtcttc aatgtgtgaa 180
acccaattg ttcaacccta caggatccaa caagcaatcg caacaggcat cttaccatta 240
tcacccttgt tcctccaaca accgtcagcc ctattacagc agttaccttt ggtccatttg 300
gtggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgca 360
tactctcagc aacatcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420
tatttgcaa 429

<210> 4882

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-023-Q1-K1-F2

<400> 4882

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gctcctatag cttcccttct tccccgtac ctctcaccag cgggtgtcttc ggtatgtgaa 180
aaccaattc ttcaacccta taggatccaa caggcaatcg cagctggcat cttaccttta 240
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ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360
tactctcagc aacaacaagt tcttccattc aaccaactag ctgcattgaa ctctgcttct 420
tatttgcaac aacaacaact 440

<210> 4883

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-023-Q1-K1-F6

<400> 4883

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gcgtccacgg ccggggccccg cgccgccgcg ggcgccgggg cggtccacgc tttcgcgggg 180
tcggcgaggg gcgccaagtg gtgggcgccg ctgctggggt ggtccgagaa ggccgactac 240
ctggaggccc cggccccgcg gccggcggtg gcgcaggacg aggcgccgcg gatgcagttc 300
gtgggggtga tgacggagga gaaggccccg gagctgcagg cgcggatggc gcagacggag 360
tccttnacg acgccatgta ccaactccgcc atcgggtcgc gcctcgcacg ctctcncta 420
ggttggtgcg cgcgcgg 437

<210> 4884

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-023-Q1-K1-H1

<400> 4884

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cagctctccc acctacgcc tcccccgca cgcgtcgc acctcgccct cccctccacg 120
ttgctcgcac ccgcgcttat ataagtgcag gaggagctca tggcggaagc tccggcgagc 180
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agcgtcaggg agcaggacag gttcctgccc atcgccaaca tcagtcgcat catgaagaag 300
gccatccccg ctaacgggaa gaccatcccc gctaacggga agatcgccaa ggacgctaag 360
gagaccgtgc aggagtgcgt ctccgagttc atctccttca tcactagcga a 411

<210> 4885

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-023-Q1-K1-H10

<400> 4885

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 caatgctcgc aagctccctat agcttgcctt cttccaccgt acctctcacc agcgggtgtct 180
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 ttgggtgcata tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca 360
 aaccttgctg cctactctca gcaacagcag tttcttccat tcaaccaact aggttcattg 420
 aac 423

<210> 4886

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-023-Q1-K1-H12

<400> 4886

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 gcttgtatag cttaccttct tccctcgtag ctatcaccaa cggtgtcttc ggtatgtgaa 180
 aaccatttc ttcaacccta caggatccaa caggcaatca cagctgccat ttaaccttaa 240
 taaccctggg tcttccacca ataataagcc ctataacatc a 281

<210> 4887

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-023-Q1-K1-H7

<400> 4887

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 ggctccaact gctacggttc ttcttctgaa cttttaacta gcggaacttt cgtattttga 180
 a 181

<210> 4888
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-024-Q1-K1-C12

<400> 4888

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tactctcagc aacaacagtt tcttccattc aaccaactag ctgcattgaa ctctgcttct 420
ta 422
  
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<210> 4889
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-024-Q1-K1-C2

<400> 4889

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cttcccttct tccccatag ctctcaccag cgggtgtctt aatgtgtgaa aaccaattg 180
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tcctccaaca accgtcaag ccctattac 269
  
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<210> 4890
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-025-Q1-K1-G3

<400> 4890

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ctattcggag aaggttgata tatggcgtgc ctgtgtgcta ctacatgtac ttctatgtgc 180
gtcactttca tttcaagggg gctctttgta cgcttcttgc tagtccatgc agtcgcaata 240
aggatcttac ctttatcaca cctgggtcttt aaacaatctt catgcatatt tttggtgctg 300
ccattggtcc aaatcataat ggcggatcag ttt 333

<210> 4891

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-025-Q1-K1-G4

<400> 4891

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gatggagctc atcaagtcca gggcgaccgt gtgcgcgctc ctctggcgcg tgctcctgct 120
ctcacactac gacggcggga cgacgacgac gatggtggcg gaggcccggg tgtgcatggg 180
caagagccag caccactcgt tcccctgcat ctccgaccgc ctctgcagca acgagtgcgt 240
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ggcgtgctaa gcaaagctct tcaaacaccc ttggcttgcc agaactgaac tctagtagta 360
ctaagtaaca cccttggtgta gctgtgcaca acctacgtac cgtgcatgca tgtaatgtgg 420
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<210> 4892

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-026-Q1-K1-C11

<400> 4892

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aagctcctat agctttccat cttcacccgg acctttcacc agcagcgtct tcagaatgac 180
aaaaccaat tctttaaccc tacatgatcc aacaagcaat agcagcttgc atcttacctc 240
tatcacccgt ggtcctccta caatcataag ccctattaca acagttacct aaggagcatt 300
tattggcaca gaacatcagg gcacaacaac tacgacaacc agtgctagca taccatgctg 360
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<210> 4893

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-026-Q1-K1-C7

<400> 4893

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gctagctgat gtgagccctg ttgccttctt gacacaacaa cagttgttgc cgttctacct 180
gcacgctgcg cctaacgctg gcacctctt acaactgcaa caattgctgc cattcaacca 240
acttgctttg acaaaccxaa cagcgttcta ccaacaaccc atcattgggtg gtgccctctt 300
ttagattgct tatgagttat acttcaataa tgaagttttt tggatgatgt ttgtggcttc 360
ccagaaataa gatagtacat ttctagattc ttaaaagata gaat 404

<210> 4894

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-026-Q1-K1-G11

<400> 4894

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atgctccttg gtctttctgc aagtgtgct acggcgacca ttttccaca atgctcacia 120
gtcctatag ctctccttct tccccgtac ctctcaccia cgggtgtcttc ggtatgtgaa 180
aacccaatto ttcaacccta caggatccaa caggcaatcg cagctggcat cttaccttta 240
tcaccttgt tctccaaca atcatcagcc ctattacage agttacctt ggtgcattta 300

ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360
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<210> 4895

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-027-Q1-K1-A10

<400> 4895

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gaacatcatg tgcttac 77

<210> 4896

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-027-Q1-K1-D2

<400> 4896

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acaattttcc ctcaatgctc acaagctcct atagcttccc ttcttcccc ataccttcca 180
tcaatgatag cttcagtatg tgaaaaccca gctcttcagc cctataggct ccaacaagca 240
atcgcgacac gcaacatacc tttatcacc ttgtagtttc aacaatgcc agccctatct 300
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gtgatc 366

<210> 4897

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-027-Q1-K1-D9

<400> 4897

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aatgctcaca agctcctata gcttcccttc ttccccata ccttccatca attatagctt 180
cagtatgtga aaaccagct cttcaacct ataggcttca acaagcaatc gcagcaagca 240
acataccttt atcgcccttg ttgtttcaac aatcaccagc cctatctttg gtgcagtcac 300
tggtacaaac catcagggca caacagctgc agcaactcgt gctacctgtg atcaaccaag 360
tagctctggc aaacctttct cctactctc agcaacaaca atttcttcca ttcaaccaac 420
tgtctacact gaaccct 437

<210> 4898

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-028-Q1-K1-B6

<400> 4898

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gctcctatag cttcccttct tccccgtac ctctcaccac cggtgtcttc ggtatgtgaa 180
aacccaattc ttcaacccta caggatccaa caggcaatcg cagctggcat cttaccttta 240
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ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360
tactctcagc aacagcagtt tcttccattc aaccaactag ctgcattgaa ctctgcttct 420
tatttgcaac aacaacaact acc 443

<210> 4899

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-029-Q1-K1-B12

<400> 4899

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ggcacagttt tcacaaatgc gtcctgttgc aatggcacct tcagtaggtc ctcgcatgcc 120

catgtttcca cctagtgttc ctggagttag tcagcagctg ttttatggtc agccacctcc 180
 agccttcata aaccctcagg ctggatttgc tttccagcaa cctatgatgc ctggtatgag 240
 gcctggtggt ccaatgccga actttatgat gcctatggtt cagcagggac agcaaccgca 300
 acgtcctgct ggtaggcgtg ctgggtctgg tggaatgcag cagcccatgc caatgggtag 360
 tcagcaacag atattcccta gaggtggctg tggtaccgc tatgctactg gacgtggaat 420
 gcctgacccg ggcattgcata at 442

<210> 4900

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-029-Q1-K1-H8

<400> 4900

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 gcaagctcct atagcttccc ttcttccccg gtacctctca ccagcgggtg cttcggtatg 180
 tgaaaaccca attcttcaac cctacaggat ccaacaggca atcacagctg gcattctacc 240
 tttatcaccg ttgttcttac aacaatcctc agccctatta catcagttac ctttggtgca 300
 tttattggca caaacatca gggcacaaca actacaaca cttgtgctag caaaccttgc 360
 tgcttactct cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaactctgc 420
 ttcttatttg caacaacgac aactaccatt c 451

<210> 4901

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-030-Q1-K1-A10

<400> 4901

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 atgctccttg gtctttctgc aagtgtgct acggcgacca ttttccaca atgctcacia 120
 gctcctatag cttcccttct tccccgtac ctctcaccag cgggtgtctt ggtatgtgaa 180

aaccaattc ttcaacccta taggatccaa caggcaatcg cagctggcat cttaccttta 240
 tcacccttgt tctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300
 ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360
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<210> 4902

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-030-Q1-K1-B4

<400> 4902

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 gatttaaaac accgacggct tcttacatct agcccgctcg ctatgggcaa tgcacctaca 120
 tacctgcaac aacagttggt gcaacaacag ttgctgcaac aaattgtacc agctcttact 180
 cagctagctg tggcaaaccg tgctgcctac ttgcaacaac tacttctatt tttcctactg 240
 actgtgtcga actctgctgc gtacctaca cagcgacaac agttacttaa tccactatcg 300
 gaggctaacc cattggtcgc tgccttcta cagcttcaac aattgcttgc catacaac 358

<210> 4903

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-030-Q1-K1-C3

<400> 4903

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 tcccttcttc ccccgtaact ctaccagcgc gtgtcttcgg tatgtgaaaa cccaattctt 180
 caacctata ggatccaaca ggcaatcgca gctggcatct tacctttatc acccttgctc 240
 ctccaacaat catcagccct attacagcag ttacctttgg tgcatttatt ggcacaaaac 300
 atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta ctctcagcaa 360
 caacagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta ttgcaacaa 420

caacaactac

430

<210> 4904

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-031-Q1-K1-A4

<400> 4904

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agcgagatcg tcgtcagcga gctcagcaga gagccagata cgagagagag gatggcggac 120

atcgcgttgc tgggtggcga gcagttcgag aagacggcaa ggcgaggcgc ccccggcggg 180

gacagcggca gcggcagcgg gaccggcggc gagacgagga acttcggggc cgtggccaag 240

gtgtggagct cgtgggtgga gtccgcctcc gccgcgcgt ccgggggtcag attcacgctc 300

gcggtgcagc tggagcccaa gaccgggctc gcgctggccg tcgtcgacgg cctcttctcc 360

gcctagcttc ctgcctgcat gttccatgt cttcctctg agcagtgcc a gtggtcgag 419

<210> 4905

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-031-Q1-K1-B5

<400> 4905

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tggctcttct gcaagtgtg ctacggcgac catcttccca caatgtcac aagctcctat 120

agcttccctt cttccccgt acctctcacc aacgggtgtc tcggtatgtg aaaacccaat 180

tcttcaacc tacaggatcc aacaggcaat cgcagctggc atcttacctt tatcaccctt 240

gttctccaa caatcatcag cctattaca gcagttacct ttggtgcatt tattggcaca 300

aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg cctactctca 360

gcaacagcag tttcttccat tcaaccaact agctgcattg aactctgctt cttatttgca 420

acaacaacaa ctaccattc 439

<210> 4906

<211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-031-Q1-K1-B8
 <400> 4906

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 ggcgaccaag atattttccc tccttatgct ccttgctctt tctacatgtg ttgctaacgc 120
 gacaattttc cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc 180
 atcaattata gcttcagtat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc 240
 aatcgcagca agcaacatac ctttatcgcc cttgttggtt caacaatcac cagccctatc 300
 tttggtgcag tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc 360
 tgtgatcaac caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct 420
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<210> 4907
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-031-Q1-K1-C7
 <400> 4907

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 gctcctatag cttcctttct tccccatac ctctcaccag cgggtgtcttc agtatgtgaa 180
 aaccoaatte ttcaacccta caggatccaa caggcaatcg cagcaggcat cttaccttta 240
 tcacccttgt tcctccaaca accgtcagcc ctattacagc agttaccttt ggtgcatttg 300
 ttggcacaaa acatcaaggc acaacaacta caacaacttg tgctaggaaa ccttgctgcc 360
 tactctcagc aacagcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420
 tatttgcaac aacaactacc a 441

<210> 4908
 <211> 432
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-032-Q1-K1-B8

<400> 4908

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gctcctatag ctctccttct tccccatac ctctcaccag cgggtgtctt aatgtgtgaa 180
acccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240
tcacccttgt tctccaaca accgtcagcc ctattacagc agttaccttt ggtccatttg 300
gtggcaciaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgca 360
tactctcagc aacatcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420
tatttgcaac aa` 432

<210> 4909

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-032-Q1-K1-C11

<400> 4909

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aatgctcaca agctcctata gcttcccttc tcccccata ccttccatca attatagctt 180
cagtatgtga aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca 240
acataccttt atcgcccttg ttgtttcaac aatcaccagc cctatctttg gtgcagtcac 300
tggtacaaac catcatggca caacagctgc agcaactcgt gctacctgtg atcaaccaag 360
tagctctggc aaacctttct cctactctc agcaacaaca atttcttcca ttcaaccaac 420
tgtctacac 429

<210> 4910

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-033-Q1-K1-B8

<400> 4910

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tggtcctttct gcaagtgttg ctaccgcaac cattttccca caatgctcac aagctcctat 120
agcttccctt cttcccccat acctctcacc agcgggtgtct tcaatgtgtg aaaccccaat 180
tggtcaaccc tacaggatcc aacaggcaat cgcaacaggc atcttaccat tatcaccctt 240
gttcttccaa caaccgtcag ccctattaca gcaattacct ttgggtccatt tgggggcacc 300
aaacaatcag gcacaacaac taccaccaac ttgtgct 337

<210> 4911

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-033-Q1-K1-G10

<400> 4911

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gctcctatag cttcccttct tccccgtac ctctcaccag cgggtgtcttc ggtatgtgaa 180
aacccaattc ttcaacccta caggatccaa caggcaatcg cagctggcat cttaccttta 240
tcacccttgt tcctccaaca atcatcagcc ctattacaac agttaccttt ggtgcattta 300
ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360
tactctcagc aacagcagtt tcttccattc aaccaactag gttcattgaa ctctgcttct 420
t 421

<210> 4912

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-033-Q1-K1-H9

<400> 4912

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 tcctcatccc gctcaacaag tgccgcgtcg ccgagttcta cctcccctgg aagtgcgagc 240
 ccgagcgcca cgcctacgag aagtgccagt acgagctcgt catggagcgg atgctccaga 300
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<210> 4913

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-034-Q1-K1-C11

<400> 4913

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 gctcctatag cttcccttct tgccccgtac ctatcaccag cgggtgtcttc ggtatgtgaa 180
 aaccaaatc ttcaacccta caggatccaa caggcaatca cagctggcat cttaccttta 240
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 ttggcacata acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctggc 360
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<210> 4914

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-034-Q1-K1-E11

<400> 4914

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 gctaccaaga tattagccct ccttgcgctt cttgcccttt ttgtgagcgc acaaatgcg 120
 ttcattatto cacaatgctc acttgctcct agtgccatta ttccacagtt cctcccacca 180
 gttacttcaa tgggcttcga acacctagct gtgcaagcca acatgcaaca acaagcgctt 240
 gcggcgagcg tcttacaaca accaattgcc caattgcaac aacaatcctt gccacatcta 300

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325

<210> 4915

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-034-Q1-K1-E6

<400> 4915

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atgctccttg gtctttctgc aagtgtgct acggcgacca ttttcccaca atgctcacia 120
gctcctatag cttcccttct tccccgtac ctctcaccag cgggtgtcttc ggtatgtgaa 180
aaccaattc ttcaacccta taggatccaa caggcaatcg cagctggcat cttaccttta 240
tcacccttgt tccttcaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300
ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360
tactctcagc aacaacagtt tcttccattc aaccaactag ctgcatttga ctct 414

<210> 4916

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-035-Q1-K1-B8

<400> 4916

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cggctgccag ccaccgccgc cggttcatct accgcgcgcg gtgcatctgc cacctccggt 180
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gccaccgccg gtccatgtgc cgacgcgggt tcctctgccg ccgccaccat gccactaccc 300
tactcaaccg ccccggaactc agcctcatcc ccagccacac ccatgcccgt gccaacagcc 360
gcatgcaaac ccgtgccagc tgcaggaac ctgcggc 397

<210> 4917

<211> 439

<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-035-Q1-K1-C3

<400> 4917

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 gcattatact aggggaaggat ggcaaaagca taaagatgct ggcaaccgca tcgaggcttg 240
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 actggcggca ggacgagcga ctctgaagc ggtatggcta cggcggcgag atccaagcgc 360
 tgtgactgtg actgtgacta tgaccggtgc gctctagctc actgtcagct gccgcgagcg 420
 tggaatgacc tggttttttt 439

<210> 4918
 <211> 82
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-035-Q1-K1-E7

<400> 4918

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 atccttacag acgattgcac tt 82

<210> 4919
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-035-Q1-K1-F5

<400> 4919

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 aatgctcaca acaatacctc tctccggtga cagccgcggg atttcaatac ccaactatac 180

aatcctacat ggtacaagag gccatccaag caagcatctt acggtcatta gcattaaccc 240
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 tcgcggcaca acaactacaa caacagttgc taccaacaat caatcaagta gttgcagcga 360
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<210> 4920

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-036-Q1-K1-B6

<400> 4920

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 agtagctctg gcaaaccctt ctccctacta tcagcaacaa caatttcttc cattcaacca 180
 actatctaca ctgaaccctg ctgcttattt gcagcaacaa ctattaccat tcagccagct 240
 agctactgcc tactctcatc aacaacaact tcttccattt aaccaattgg ccgcactgaa 300
 cctcgctgct tatttgagc agcaaattt actaccattt agccagctag ctgcagcaag 360
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<210> 4921

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-036-Q1-K1-E1

<400> 4921

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 cggctgccag ccaccgccgc cggttcatct accgccgcgc gtgcatctgc cacctccggt 180
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tactcaaccg ccccggcctc agcctcatcc ccagccacac ccatgcccgt gccaacagcc 360
gcatacaagc ccgtgccagc tgcagggaaac ctgcggcggt ggcaagaccc cgatcctggg 420
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<210> 4922

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-036-Q1-K1-G11

<400> 4922

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tcctttcttc ccccatacct ctcaccagcg gtgtcttcag tatgtgaaaa cccaattctt 180
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atcaaggcac aacaactaca acaacttggt ctaggaaacc ttgctgccta ctctcagcaa 360
cagcagtttc ttccattcaa ccaactgggt gcattgaact ctgctgctta ttgcaacaa 420
caactaccat tcagtcagct agct 444

<210> 4923

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-038-Q1-K1-C11

<400> 4923

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actacccttc ttctccgta cctcttatca gggatgtctt cattatgata aaacctaat 180
attcaaccct acaggatcca acaggcagtc acagctggca tcttaccttc atcacccttg 240
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cacatcatga cacaactact actacaactt gtgctagcaa acctcgctgc ctactatcat 360

caacagcagc atattacatt caaccaacta gctgcattga actctgcttc ttattagcaa 420
caacaaca 428

<210> 4924
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-038-Q1-K1-F6

<400> 4924

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atgctccttg gtctttctgc aagtgttgct accgcaacca ttttcccaca atgctcacia 120
gctcctatag cttcccttct tccccatac ctctcaccag cgggtgtcttc aatgtgtgaa 180
acccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240
tcacccttgt tcttccaaca accgtcagcc ctattacagc agttaccttt ggtccatttg 300
gtggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgca 360
tactctcagc aacatcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420
tatttgc 427

<210> 4925
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-038-Q1-K1-G11

<400> 4925

taggcaccaa atcaaactg caacatcaat tatctaactc caaaaaccat gaagctggtg 60
cttggtggttc ttgctttcat tgcttttagta tcaagtgttt cttgtacaca gacaggcggc 120
tgcagctgtg gtcaacaaca aagccatgag cagcatcatc atccacaaca acatcatcca 180
caaaaacaac aacatcaacc accaccacaa catcaccagc agcagcaaca ccaacaacaa 240
caagttcaca tgcaaccaca aaaacatcag caacaacaag aagttcatgt tcaacaacaa 300
caacaacaac cgcagcacca ccaccaacaa caacaacaac agcaccaaca acaacatcaa 360
tgtgaaggcc aacaacaaca tcaccaacaa tcacaaggcc atgtgcaaca acacgaa 417

<210> 4926
 <211> 288
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-038-Q1-K1-G4

 <400> 4926

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 tgggtctttct gcaagtgttg ctaccgcaac cattttccca caatgctcac aagctcctat 120
 agcttccctt cttcccccat acctctcacc agcgggtgtct tcaatgtgtg aaaccccaat 180
 tgttcaaccc tacaggatcc aacaggcaat cgcaacaggc atcttaccat tatcaccctt 240
 gttccttcaa caaccgtcag ccctattaca gcagttacct ttgggtcca 288

<210> 4927
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-038-Q1-K1-H9

 <400> 4927

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 tcagctgcaa gggttttcca aaacctcagc cagattcatc aatctgaggg atctgaccat 180
 gtatttgcoct ctttatgggg aacctaagtc aattagtggg attcttcgct tggcctacct 240
 actggaattg gccccagctc tagaagaatt ggaattgcat gtgaatggcg gtgacgtgga 300
 tgttgggtgg gcactcagag ggaatatgtt accgtactca cacaataggc tcaagagggt 360
 ccttatttca ggagccagtg tatgggaggg gctaattggag ctggcatact acatttttcg 420
 g 421

<210> 4928
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3061-039-Q1-K1-B3

<400> 4928

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cagctgacct agttgctgct gttaaacaat tatataatac caagctgaag gatgcatcta 120
ttctgattcc cttactgcct tcattttccaa aggaggaggt attgcctata tttcctaggc 180
tagttgatct cccgcttgag agattccaag acgtacttgc tcggatattg caggggaactg 240
ctcactactgg tccagcattg actcctgctg aagtttctcat tgcaattcat gatattaacc 300
ctgaaaaaga taaagttgcc ctaaaaaagg tcacgggatgc ttgcacggct tgctttgagc 360
aacgcacggg atttactcag cangttttgg agaagtcact taatcaattg gttgacagaa 420
taccaattcc tcttcttttt atg 443

<210> 4929

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-039-Q1-K1-B8

<400> 4929

taccaacata catagtgaag tacactagca acatcttagc accaatggca gccaagattt 60
ttgcgctcct tgccctcctt gctctttcag caagtgttgc taccgcgact attattccac 120
aatgctcaca acaataacct tctccagtga tagccgagag atttgaatac ccatctatac 180
aatcctacag gctacaagag gccatcacag caagcatctt acggtcgtta gcattgaccg 240
tccaacaacc atatgcccta ttgcaacaac catccttagt gaatctgtat ctccaagaa 300
tcacagcaca acaactacaa caacggttgc ttccaacaat taatcaagta gttgcagcga 360
accttgctgc ttaccttcag caacaacaat ttcttccatt caatcaacta gctgggggtga 420
accct 425

<210> 4930

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-039-Q1-K1-F5

<400> 4930

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aagatttttg cctccttgc cctccttgct ctttcagcaa gcgctgctac ctgcactttt 120
attccacaat gctcacaaca atacctctct cgggtgacag ccgcggggatt tcaataccca 180
actatacaat cctacatggt acaagaggcc atccaagcaa gcatcttacg gtcattagca 240
ttaaccctcc aacaaccata tgctctattg caacagccat ccttagtgca tctgtatctc 300
caaagaatcg cggcacaaca actacaacaa cagttgctac caacaatcaa tcaagtagtt 360
gcagcgaacc ttgctgctta cctncagcaa caacagtttc ttccattcaa tcaactagct 420
ggggtgaacc ctgctatcta cttgc 445

<210> 4931

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-039-Q1-K1-H10

<400> 4931

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caaggaggctc tacaaccctt ttgcagcgga agggctgctg ctggctcgga tgaagaagac 120
gctcgtgttc taaaaaggca gggctcccag gggtgacaaa accaactggg tgatgcacga 180
gtacaggctc gaaggcagcg gtaggctccc tgctagtcct gcatccgcat ccggctcagc 240
caccaacatc gctgcggcca tgatgaaagc ttcagcttcg gcttgcaagg atgagtgggt 300
ggctctgtcgt gtgttcaaca agaccaccgg gatcaagaag acggctgcgc cggcatacca 360
ggtggccatg gccggtgctg agatggatca gaatcagaac aacattccgg ccatccccat 420
cccatgccg c 431

<210> 4932

<211> 359

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-040-Q1-K1-G5

<400> 4932

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gctaccaaga tattagccct ccttgcgctt cttgcccttt tagtgagcgc aacaaatgcg 120
ttcattattc cacagtgtc acttgctcct agtgccatta ttccacagtt cctcccacca 180
gttacttcaa tgggcttcga acatccagcc gtgcaagcct acaggctaca actagcgctt 240
gcgggcgagcg ccttacaaca accaattgcc caattgcaac aacaatcctt ggcacatcta 300
accctacaaa ccattgcaac gcancaaaa caacaacaac agtttctgcc atcactgag 359

<210> 4933

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-040-Q1-K1-H3

<400> 4933

cccacgcgtc cgaagcaaca tacctttatc gcccttggtg tttcaacaat cgccagccccg 60
atcgggtggtg cagtcattgg taaaaacat cagggcaca cagctgcagc aactcgtgct 120
acctctgatc aaccaagtag ctctggcaaa cctttctccc tactctcagc aacatagaaa 180
gtggaatcca gtagcaaaa tagagcaaca atggcgacca agatattttc cctccttatg 240
ctccttgctc tttctacatg tgttgtaac ggcacaattt tccctcaatg ctcaaacgct 300
cctatagctt cccttcttcc ccatacctt ccatcaatta tagcttcaat atgtgaaaac 360
ccagc 365

<210> 4934

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-040-Q1-K1-H4

<400> 4934

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ctgggactac cctacagcac gatcggagtc caagtccatt ccatccatac cactcgcaca 120

<210> 4935

<211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-041-Q1-K1-C7

 <400> 4935

 aagcaacata gaaagtggaa tacagtagca aaaatagagc aacaatggcg gccaaagatat 60
 tttccatcct tatgctcctt gctctttctg catgtgttgc taacgcgacc atttttcctc 120
 aatactcaca agctcctata gctgcccttc ttcccccata ctttccatca atgaccgctt 180
 tagtatgtga aaaccagcc cttcaaccct acaggatcca gcaagcaatc gcaacaagca 240
 acttaccttt atcacacctg ttctttcaac aatcgccagc cctatctttg gtgcagtcac 300
 tggtaaaac catcagggca gaacagttgc 330

<210> 4936
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-041-Q1-K1-D1

 <400> 4936

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 tgtccatcct tatgctcctt gctctttctg catgtgttgc taacgcgacc atttttcctc 120
 aatactcaca agctcctata gctgcccttc ttcccccata ctttccatca atgaccgctt 180
 tagtatgtga aaaccagcc cttcaaccct acaggatcca gcaagcaatc gcaacaagca 240
 acttaccttt atcacacctg ttctttcaac aatcgccagc cctatctttg gtgcagtcac 300
 tggtaaaac catcagggca gaacagttgc aagcaacttc gt 342

<210> 4937
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-041-Q1-K1-E1

 <400> 4937

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atggcgccca agatattttc catccttatg ctcttgctc tttctgcatg tgttgctaac 120
gcgaccattt ttctcaata ctcaagct cctatagctg cccttcttcc ccatacctt 180
ccatcaatga ccgcttttagt atgtgaaaac ccagcccttc aaccctacag gatccagcaa 240
gcaatcgcaa caagcaactt acctttatca cacctgttct ttcaacaatc gccagcccta 300
tctttggtgc agtcattggt acaaaccatc agnggcagaa c 341

<210> 4938

<211> 322

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-041-Q1-K1-H1

<400> 4938

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atgtctcttg gtctttctgc aagtgttgct accgcaacca ttttcccaca atgtcacaa 120
gtctctatag ctctcttctt tccccatac ctctcaccag cgggtgtcttc aatgtgtgaa 180
aaccgaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240
tcacccttgt tctccaaca accgtcagcc ctattacagc agttaccttt ggtccatttg 300
gtggcacana acatcagggc ac 322

<210> 4939

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-042-Q1-K1-E8

<400> 4939

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agacctcggt tctgtcctt gaggttcaat ggtactgctg catgcctgtg ctcaaaccc 120
tactggagta gatcctacca tcgaacagtg ggaacagatt aggcagctga tgagatcaaa 180
atcaactgctt ccgttctttg acagtgccta tcaaggcttt gcaagtggaa gtcttgacaa 240
agatgctcag tcagtgcgta tgtttgttgc tgatgggtgg gaacttctca tggctcagag 300

ctacgctaag aacatgggat tgtatggaga gcggtgtggc gctttgagca ttgtatgtaa 360
aagtgccgat gtagctgtta aggttgaaag tcaactcaaa cttgtcatca agcctatgta 420
ttcaaaccct tctcttcat 439

<210> 4940

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-043-Q1-K1-D1

<400> 4940

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atgctccttg atctgggtgc aagtgtttct actgcgacca ttttatcaca atgctcacia 120
gcttctatag cttcccttat tccctcgat atctcaccag cgggtgtcttc ggtatgtgaa 180
aaccaattc ttcaacccta tacgatccaa caggcaatcg cagctggcat cttaccttta 240
tcacccatgt tcctacaaca atcatcagcc ctattacagc attaccatt ggtgcattta 300
ttggcacaaa acatcacacc acatctacta ccacaacttg tgctagcaaa ccttgctacc 360
tactctcatc atcaacagtc tc 382

<210> 4941

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-043-Q1-K1-E6

<400> 4941

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caactataga ggagcctaca gttcaagcaa atgcctcaag aagtgtggcc agccatcaca 120
gactttgtac catgttcccc gttcgtttct ccaaccaggc agcaatgatc tagtcctttt 180
cgagcatttt ggtgggtgacc caagcaagat atcctttgtg atgaggcaga caggaagtgt 240
gtgcgcacaa gtatcagagg cacatccagc ccaaattgat agttggagtt ctcaacagcc 300
gatgcataga tatggacctg cacttcgcct ggaatgccca aaagaaggcc aggtcatcag 360
cagcatcaag tttgcaagct ttgggacacc gagtggcaca tgtggaagct acagccatgg 420

cgaatgcaac agcac

435

<210> 4942

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-043-Q1-K1-F1

<400> 4942

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ggttgagctg gtggtggagg tcaagtcgcc ggctgacaag ctgtgggcgg cgctgcgtga 120
ctcgacggag ctgttcccca agatcttccc cgagcagtac aagagcatcg agaccgtcga 180
gggacgagc aagtcggccg gcaccgtccg cctcctcaag tacaccgagg cggtgccgat 240
gctgacgttc gccaaaggaga agcttgagac ggcggacgac gagaacaagg tgggtgtcgta 300
cagcgtggtg gacggcgagc tggcggactt ctacaagaac ttcaagatca cgctgaaggt 360
tgactccgcc aangcggang gcgagggcgg cgccgtcgtc agctgggcca tggagttcga 420
caaggccaac gacca 435

<210> 4943

<211> 235

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-044-Q1-K1-A12

<400> 4943

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cttatgctcc ttgctctntc tgcattgtgt gctaacgcga caattttccc tcaatgctca 120
caagctccta tagcttccct tcttcccca taccttccat caatgatagc ttcagtatgt 180
gaaaaccag ctcttcaacc ctatangctc caacangcaa tcgcagcaag caaca 235

<210> 4944

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-044-Q1-K1-A2

<400> 4944

cacgggacag gcatggcgag ccgcgagcgg cagcacaccc gcagctacga ctacgactgc 60
gagcacctcg tgctcgaccc ggcgtctctg ggcgtgccgt gggccgaccc ggccgccgtg 120
gagatcccg cgcagctcct cgccgcgctc ggggagtagc tctccggctc cgccggcccg 180
ggggacgtcg aggcggaggg ggacgacgag ttcattgatgc acgagttcaa ggtgcggcgg 240
tgcgcgcgcg cgccggagcca cgactggacg ggcgtgccct acgcgcaccc gggcgaggcc 300
gcgcggcgcc gggaccccg cgccgctcgcc tacgcggggg agccgtgccc ggacttccgg 360
ctgccgcccg gcgccgtcac cggcgcgctgc ccgcgc 396

<210> 4945

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-044-Q1-K1-B7

<400> 4945

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tttccctcct tatgctcctt gctctttctg catgtgttgc taacgcgaca attttccctc 120
aatgtctaca agctcctata gcttcccttc ttcccccata ccttccatca atgatatgctt 180
cagtatgtga aaaccagct cttcaaccct ataggctcca acaagcaatc gcagcaagca 240
acataccttt atcacccttg tttcaacaat cgccagccct atctttggtg cagtcattgg 300
tacaaccat caaggcacag cagctgcagc aactcgtgct acctgtgatc aaccaagtag 360
ctctggcaaa cctttctccc tactatcagc aacaaca 397

<210> 4946

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-044-Q1-K1-D5

<400> 4946

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ttcagcaagt gttgctaccg cgactattat tccacaatgc tcacaacaat acctctctcc 120
 agtgatagcc gcgagatttg aatacccata tatacaatcc tacaggctac aagaggccat 180
 cacagcaagc atcttacggt cgtttagcatt gaccgtccaa caaccatatg ccctattgca 240
 acaaccatcc ttagtgaatc tgtatctcca aagaatcaca gcacaacaac tacaacaacg 300
 gttgcttcca acaattaatc aagtagttgc agcg 334

<210> 4947
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-044-Q1-K1-F9

<400> 4947

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 gcttcgaaca tccagccgtg caagcctaca ggctacaact agcgcttgcg gcgagcgcc 180
 tacaacaacc aattgccc aa ttgcaacaac aatccttggc acatctaacc ctacanacca 240
 ttgcaacgca tcatcaaaa caacaacagt ttctgccatc actgagccac ctagccgtgg 300
 tgaaccctgt cacctacttg caacagcagc tgcttgcatc caaccactt gctctggcga 360
 acgtagctgc ataccagcaa caacaacagc tgcaacagtt tatgccagtg ctgagtcaa 419

<210> 4948
 <211> 79
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-045-Q1-K1-C1

<400> 4948

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 ctgcgatcgg attcgtatt 79

<210> 4949
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-045-Q1-K1-E3

<400> 4949

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atgctgcttg gtctttctgc aagtgtgct acggcgacca ttttccaca atgctcacia 120
gctcctatag ctcccttct tccccgtac ctctcacaa cgggtgtctt ggtatgtgaa 180
aacccaattc ttcaacccta caggatccaa caggcaatcg cagctggcat cttaccttta 240
tcacccttgt tctccaaca atcatcagcc ctattacagc agttacctt ggtgcattta 300
ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360
tactctcagc aacagcagtt tcttccattc aaccaactag ctgcattgaa ctctgcttct 420
tattgcaaca acaacaacta cca 443

<210> 4950

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-045-Q1-K1-E4

<400> 4950

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cgaggcaaga tggttctcca gaacgacatt gatctgctca acccgccggc agaactcgag 120
aagctcaagc acaagaaaaa gagactcgtc cagtcgcca actccttctt catggatgtt 180
aagtgccagg ggtgcttcag cataaccact gttttcagcc actcccagac tgttggttg 240
tgccctggct gccaaactgt cctctgcaa cccacaggag gaaaggcaag gctcactgag 300
ggctgctctt tccgcaggaa gggagactag agcggatgtg gtcttcaagt tttgctctat 360
gccagatact agcgtcatga actgccttta gctaagattt tccataagtt gttctcgagc 420
agctatgtgt tgcattgttg ctacttccaa 450

<210> 4951

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-045-Q1-K1-E9

<400> 4951

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catctacgat aacatgaatg attccacttc ttcagcttaa ggctagaaca acaaatgacc 120
acataatata ctaattacaa ctacctcaa gattctttaa tacacaatga aaccgacaaa 180
ttactttaat caacttctaa cacagaactt tgcactaact atttactgca tcaaccaaca 240
tgggtccatca tctcaatata tccaatatca taattgcaac agcaatactc agcacatcca 300
actttaccga ccattgtaac taaacatata cgtcatttcc taccataact gatccaccta 360
tcaattacct acat 374

<210> 4952

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-045-Q1-K1-F4

<400> 4952

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atgctgcttg gtctttctgc aagtgtgtgt accgcaacca ttttcccaca atgctcacia 120
gtctctatag cttcctttct tccccatac ctctcaccag cgggtgtcttc agtatgtgaa 180
aacccaattc ttcaacccta caggatccaa caggcaatcg cagcaggcat cttaccttta 240
tcacccttgt tctccaaca accgtcagcc ctattacage agttaccttt ggtgcatttg 300
ttggcacana acatcaaggc acaacaacta caacaacttg tgctaggaaa ccttgctgcc 360
tactctcagc aacagcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420
tatttgcaac aacaactacc attcagtcag ctagct 456

<210> 4953

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-046-Q1-K1-C1

<400> 4953

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atgcgccttg gtctttctgc aagtgtgtgt acggcgacca ttttcccgca atgctcgcaa 120
gctcctatag ctccccctct tccccgtac ctctcaccag cggtgtcttc ggtatgtgaa 180
aacccaattc ttcaacccta caggatccaa caggcaatca cagctggcat cttaccttta 240
tcacccttgg tccttcaaca atcatcagcc ctattacatc aggtaccttt ggtgcattta 300
ttggcaccaa acattaaggc acaacaactt ccaccacctg ggctagccaa acctgtgtgc 360
ctactttcag gcacagcagt ttcttccatt caaccaacta gctgcattga actctgtctc 420
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<210> 4954

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-046-Q1-K1-D3

<400> 4954

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tttcggttct tatgtctcctt gctctttctg catgtgttgc taacgcgaca attttccctc 120
aatgttcaca agctcctata gcttcccttc tttccccata cttttcatca atgatagctt 180
cagtatgtga aaaccaact tttcagccct ataggettca accagcaatc gcaacaagcc 240
acataccttt attaaccttg gtgggttcaac catcggcagg cctattttt 289

<210> 4955

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-046-Q1-K1-D8

<400> 4955

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aacaacaatt tcttccattc aatcaactag ctgggggtgaa ccttgctgct tacttgagc 120
cacaacagct actaccattc aaccaacttg tcgggagccc tgctgccatc ttattgcagc 180
aacagttgct gccattccgt ctacaagttg ttgcaaacad tgctgctttc ttgcaacaac 240

aacaattgct gccattttac ccacagggtg tgggaaacat taacgccttc ttgcaacaac 300
aacaattgct gccattctac ccacaggatg tggcaaacat tgtcgccttc ttacaacaac 360
agcaattgct gccatttagc caactcgctt tgacgaatcc taccacctta ttgcatcag 419

<210> 4956
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-047-Q1-K1-B4

<400> 4956

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gaggaagccg aagaagttgc caggcgaggt gatctccgaa gagtattctt tggaatatgg 120
aactgacaag atagaaatgc atgttggagc tgtacaggcc aacgaccggg ctctttagt 180
cgatgatctt attgctaccg gtggaacact ctgtgcagct gtcaaactta ttgaacgtgt 240
tggagcaaag gttgttgagt gtgcttgtgt cattgaattg ccagaactga agggtcgaga 300
caagcttggg gacaggccag tttttgtcct tgtggaagca gacgcctgag cggaatttgg 360
gaattctcag agagtttggg gccgtcgatg ctccctctct ggagacaaca cagtttccca 420
tgttaccatg ttggctaatt tc 442

<210> 4957
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-047-Q1-K1-F3

<400> 4957

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atgtgtcttg gtctttctgc aagtgtgct acggcgacca ttttcccgca atgctcgcaa 120
gctctatag ctcccttctt tccccgtac ctctcaccag cgggtgtcttc ggtatgtgaa 180
aaccacaattc ttcaacccta caggatccaa caggcaatca cagctggcat cttaccttta 240
tcacccttgt tctccaaca atcatcagcc ctattacatc agttaccttt ggtgcattta 300
ttggcacaga acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360

tactctcagc aacagcagtt tctttcattc aaccaactag ctgcattg

408

<210> 4958

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-048-Q1-K1-B8

<400> 4958

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aggatgacaa tctgtggaga acaactagtg aggaaaagag ggacctggaa cgactgcaaa 120
agccaatata caactctgtt cgccaagcag cagaagttca tagacagggtg cggaatata 180
tgaggagcat cataaaacct ggaatgttaa tgggtgatct atgtgagaca ttggaaaaca 240
tgggtccgaa acttatcaag gagaatggac tgcaagctgg cattgctttt ccgactggat 300
gctccttgaa ttgggttgca gtcactgga ctccaaatgc gggcgacaaa actgtgctac 360
aatatgatga tgtgatgaag cttgattntg gaacacatat agatggttac attgttgatt 420
gtgcatttac tgggtgcat 438

<210> 4959

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-048-Q1-K1-E8

<400> 4959

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ctttatgcaa gtgctgctac ggggaccatt ttcccacaat gtcacaagc tcctatagct 120
tgctttcttc ccccgtaact ctcaccaacg gtgtcttggg tatgtgaaaa cccaattctg 180
caacctaca ggatccaaca ggcaatcgca gatggcatac tacctttatc acccttggtc 240
ctgcaacaat catgatgcct attacagcaa ttaccttggg tgcatttatt ggcacataac 300
atcagggcac atcagctaca tcaacttggt ctagcaaacc ttgctgccta ctctcagcaa 360
cagcaagctc ttccattcaa ccaactagct gcattgaact ctgctgctta tttgcaacaa 420
cagcaactac cattcagtca g 441

<210> 4960
 <211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-048-Q1-K1-G3

<400> 4960

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 gacaacagtt acttaatcca ctagcagtgc ctaaccatt ggctactgcc ttcttacagc 120
 agcaacaatt gctaccatac agccagttct ctttgatgaa ccctgccttg tcgtggcagc 180
 aacccatcgt tggaggtgcc atcttttaga ttacatatga gatgtaatcg ataatggcgc 240
 cctcataccg gcatgtgttt cctagaaata atcaatatat tgattgacat ttatctcg 298

<210> 4961
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-049-Q1-K1-A3

<400> 4961

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 cctgatgctg cttgggtctta ctgcaagtgc tgctaccgca accattttcc cacaatgctc 120
 acaagctcct atagcttact tacttcccc atacctctca ccagcgggtgt cttcagtatg 180
 tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgcagcag gcattcttacc 240
 tttatcacc cttgttgcgca acaaccgtca gccctattac agcagttacc tttgggtgcat 300
 ttgttggcac aaaacattca ggcacaacaa ctacaacaac ttgtgctaag aaaccctgct 360
 tgctactctc agcaacagca gtttcttcca ttcaaccaac tggctgcac gaactctgct 420
 gcttatttgc aacatcaact accattcagt c 451

<210> 4962
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-049-Q1-K1-A7

<400> 4962

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atgcgcttg gtctttctgc aagtgttgct accgcaacca ttttcccaca atgtccacaa 120
gctcctatag ctcccttct tccccatac ctctcaccag cgggtgtctt aatgtgtgaa 180
acccaattg ttcaacccta caggatccaa caagcaattg caacaagcat ttaaccata 240
ttaaccttg ttcttccaac aaccgtaagc cttattacag cagttacctt ggggccattt 300
gggtggcacia aacatcaggg cacaacaact acaacaactt gtgctagcaa accttgctgc 360
atactctcag caacatcagt ttcttccatt caaccaactg gctgcattga actctgctgc 420
ttatttgcaa caacaattac cattcagcca gct 453

<210> 4963

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-049-Q1-K1-D3

<400> 4963

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atcggttagg taactccaaa aaccatgaag ctgggtgctt tgggtcttgc tttcattgct 120
ttagtatcaa gtgtttcttg tacacagaca ggctgctgca gctgtggtca acaacaagc 180
catgagcagc aacatcattc acaacaacat catccacaaa aaccaccaca ttaaccaaca 240
acacaacctt accaagagca gcaaccccaa ccaccaccag gtcacatgcc accaccaaaa 300
ccttagcaac caccagaaat tcatggtcaa caaccaccac caccaccgga gtatcaccat 360
caacaacaac caccaccgag ccaacaacca cattaatgtg aaggccaaca acaacattac 420
caacaatcac aaggccatgt gcaacaacac gaacagag 458

<210> 4964

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-049-Q1-K1-D7

<400> 4964

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 ttggcgtgct tatgctcctt gctctttcta catgtggtgc taacgcgaca atgttccttc 120
 aatgctcacc agctcctatc gctttccttc tttccccata ccttccatta attatagggtt 180
 taatatgtca aaacccaagt cttcaaccat ataagcttca acaagcaatc atattcagcc 240
 acataccttt attgcccttg gtggttcaac aatcaccagg cctatctttg gtgcaaacat 300
 tgggtacaaac catcagggca caacagctgc agcaactcgt gctacctgtg atcaaccaag 360
 taactctggc aaacctttct ccctactctc agcgacaaca attttcttcc attcaaccaa 420
 ctgtctacac tgaaccctgc tgcttattt 449

<210> 4965
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-049-Q1-K1-E1
 <400> 4965

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 gctgccaaaga tattagccct ccttgcgctt cttgcccttt tagtgagcgc acaaagtgcg 120
 ttcattattc cacagtgtc acttgctcct agtgccatta ttccacagtt cctcccacca 180
 gttacttcaa tgggcttcga acatccagcc gtgcaagcct acaggctaca actagcgctt 240
 gcggcgagcg ccttacaaca accaattgcc caattgcaac aacaatcctt ggcacatcta 300
 accctacaaa ccattgcaac gcaacaacaa caacaacaac agtttctgcc atcactgagc 360
 cacctagccg tgggtgaacc tgctacctac ttgcaacagc agctgcttgc attcaacca 420
 cttgctctgg cgaacgtagc tgcataccag caaca 455

<210> 4966
 <211> 198
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-049-Q1-K1-E2
 <400> 4966

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tatggcgcg tatactacct gcgcattggag atagtgtagt gaacgctgtc aagacgtctt 120
 taatgcaaga gagattagat agctgggtgtt ggctgccatg cgatcctatg atgatggctg 180
 gcttattgga aaacctat 198

<210> 4967
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-049-Q1-K1-G7

<400> 4967

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 tgccagacac caccgtttca tctaccgcct ccgttctata tgccgcctcc gttctatctg 180
 ccgccgcagc agcagccgca gccatggcaa taccctactc aaccaccgca gctaagcccg 240
 tgccagcagt tcggatcctg cggcgctggc agcgctggca gcccgttcct gggccagtgc 300
 gtcgagttcc tgaggacca gtgcagcccg gggcgacgc cctacggctc gccacagtgc 360
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 caggcgacat acggtgtggt cctgc 445

<210> 4968
 <211> 465
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-050-Q1-K1-B8

<400> 4968

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 tttgcgctcc ttatgtcctt tgctctttct acatgtgttg ctaacgcgac aattttccct 120
 caatgtcac aagctcctat agcttcccta tttccccat accttccatc aattatagct 180
 tcagtatgtg aaaaccagc tcttcaacca tataggcttc aacaagcaat cgcagcaagc 240
 aacatacctt tatcgccctt gttgtttcaa caatcaccag ccctatcttt ggtgcagtca 300
 ttggtacaaa ccatcagggc acaacagctg cagcaactcg tgctacctgt gatcaaccaa 360

gtagctctgg caaacctttc tccctactct cagcaacaac aattttctcc attcaaccaa . 420
 ctgtctacac tgaacctgc tgcttatttg cagcaacaac tatta 465

<210> 4969
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-050-Q1-K1-E1

<400> 4969

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 agcttccctt cttccccgt acctctcacc aacgggtgtct tcggtatgtg aaaacccaat 180
 tcttcaacc tacaggatcc aacaggcaat cgcagctggc atcttacct tatcaccctt 240
 gttcctcaa caatcatcag cctattaca gcagttacct ttgggtgcatt aattggcaca 300
 aaacatcagg gcacaccacc tccaacaact tgtgctagca aaccttgctg cctactttaa 360
 gcaccagcag tt 372

<210> 4970
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-050-Q1-K1-F5

<400> 4970

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 gctcctatag ctgtccttct taccacatac ctctcaccag cggcgtcttc aatgtgtgaa 180
 accccaattg ttcaacccta caggatcaa caggcaatcg caacaggcat cttaccatta 240
 tcaccttga tctccaaca accgtcagcc ctattacagc cgttacctt ggtccatttg 300
 gtggcacaaa acatcacggc acaacaacta ccacaacttg tgctaacaaa ccttggtgca 360
 tactcttaag aacatcaatt tatttcattc aaccaactgg ctgcattgaa ctctgctgct 420
 tatttgcaac aacaattacc attca 445

<210> 4971
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-051-Q1-K1-C11

 <400> 4971

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 aatactcaca agctcctata gctgcccctt ttccccata ccttccatca atgaccgctt 180
 cagtttgtga aaaccagcc cttcaaccct acagggtcca acaagcaatc gcaacaagca 240
 acttaccttt atcacccctg ttctttcaac aatcgccagc cctatctttg gtgcagtcac 300
 tgggtacaaac catcagggca caacagctgc aacaactcgt gctaccagtg atcagccaag 360
 tagctctggc aaacctttct ccctactctc agcaacaaca atttcttcca ttcaaccaac 420
 tgtctacact gaa 433

<210> 4972
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-051-Q1-K1-C2

 <400> 4972

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 gctcctatag ctgcccttat ataccgtac ctctcaccac cgggtgtcttc agtatgtgaa 180
 aaccaattc ttcaacccta caggatccaa caggcactcg cagctggcat cttaccttta 240
 tcacccttgt tcttgcaaca atcatgagcc ctactacaac agttaccttc ggtgcatgta 300
 ttggcacaca acatganggc acaacaacta ccacaac 337

<210> 4973
 <211> 438
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-051-Q1-K1-D10

<400> 4973

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gaatatgtgg acgatcagga aggtggcgac gccgcaggtg gccgtcctcc tgctgctcct 120
catcgctcgtt gcgcaggagg cggcgccggtt ggcgaggcg cgcggtgtgcc ggcgccggag 180
cgcgggccttc aaggggggtct gcatgtccga ccacaactgc gcgcaggtgt gcttgcagga 240
gggctacggc ggcggaact gcgacggcat catgcgccag tgcaagtga tcagggagtg 300
ctagctagct aggtcttagg atctagcaag ctagctatat cggcctttaa ttaaattaat 360
aaggatcgac gtcgtggccg gtcgctaaat atgtactact atacggttac actacatgca 420
ataatgcacc acatgtac 438

<210> 4974

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-051-Q1-K1-E1

<400> 4974

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tggctttggt gcagtcattg gtacaaacca tcagggcaca acagctgcag caactcgtgc 120
tacctgtgat caaccaagta gctctggcaa acctttctcc ctactctcag caacaacaat 180
ttcttccatt caaccaactg tctacactga accctgctgc ttatttgcag caacaactat 240
taccatttag ccagctagct actgcctact ctcagcaaca acaacttctt ccatttaacc 300
aattggccgc actgaacccc gctgcttatt tgcagcagca aatactactg ccatttagcg 360
agctagctgc agcaagtcgt gccttcttct tgacacagc 399

<210> 4975

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-051-Q1-K1-E4

<400> 4975

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tggtctttct gcaagtgtg ctacggcgac cattttcccg caatgtctgc aagctcctat 120
agcttccctt ctcccccg acctctcacc agcgggtgtct tcggtatgtg aaaacccaat 180
tcttcaaccc tacaggatcc aacaggcaat cacagctggc atcttacctt tatcaccctt 240
gttctccaa caatcatcag cctattaca tcagttacct ttggtgcatt tattggcaca 300
aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg cctactctca 360
gcaacagcag tttcttccat tcaaccaact agctgcattg aactctgctt cttatttgca 420
acaacaacaa ctaccattca gccagcta 448

<210> 4976

<211> 344

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-051-Q1-K1-G4

<400> 4976

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gnccctcggc gtcttctcc gattcggtg gctgcagaat agagttctgc aatctgcctg 180
ctgctcacia tccttggtta cgtccccgga atcatctacg cgatctatgt ccttggtgct 240
ctcgactctg accagcacga gagggaaatc tacacccttg cttagagcat ctggttgctg 300
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<210> 4977

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-051-Q1-K1-H7

<400> 4977

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atgctccttg gtctttctgc aagtgttgct accgcaacca ttttccaca atgctcacia 120

gctcctatag cttcccttct tccccatac ctctcaccag cggtgtcttc aatgtgtgaa 180
 accccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240
 tcacccttgt tccccaaca accgtcagcc ctattacagc agttaccttt ggtccatttg 300
 gtgggcacaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgca 360
 tactctcagc aacatcagtt tcttcccatt caaccaactg gctgcattga actctgct 418

<210> 4978
 <211> 453
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-052-Q1-K1-A4

<400> 4978

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 acattaagaa ggaagatctt tctttgatct tagaaggcct caggggacgg gcagatccag 120
 atttgaagat tatagcgatg actttgaaga atgcatcata tacctcaggg tttcacgctg 180
 gttacaaaac catgcagaat cgtgggtctaa acggctgacc cacttaggtc ccagtctctc 240
 aattgcatgg tttgatacaa gaaacaggaa tctgatttta catatttgta tgctgttgaa 300
 tgaagtcaac atattatggt tgatgctctc gttctatcta tgacgtatgc tcttttttgt 360
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 gtgcagtggt ccatagaata tgtatttaca aga 453

<210> 4979
 <211> 465
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-052-Q1-K1-B11

<400> 4979

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 aatgctcaca agctcctata gcttcccttc tcccccata ccttccatca attatagctt 180

caatatgtga aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca 240
acataccttt atcgcccttg ttgtttcaac aatcgccagc cctatctttg gtgcagtcac 300
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tagctctggc aaacctttct cctactctc agcaacaaca atttcttcca ttcaaccaac 420
tgtctacact gaaccctgct gcttatttgc agcaacaact attac 465

<210> 4980
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-052-Q1-K1-B4

<400> 4980

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tggtctttct gcaagtgtcg ctacggcgac cttttcccg caatgctcgc aagctcctat 120
agcttccctt cttccccgt acctctcacc agcgggtgtct tcggtatgtg aaaacccaat 180
tcttcaacc tacaggatcc aacaggcaat cacagctggc atcttacctt tatcaccctt 240
gttcctccaa caatcatcag ccctattaca tcagttacct ttggtgcatt tattggcaca 300
aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg cctactctca 360
gcacagcaag ttctccattc acccactagc tgcattgaact ctgttcttaa ttgaacaaca 420
acactaccat tca 433

<210> 4981
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-052-Q1-K1-G6

<400> 4981

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gctcctatag cttcccttct tccccgtac ctctcaccag cgggtgtcttc ggtatgtgaa 180
aacccaattc ttcaacccta caggatccaa caggcaatcg cagctggcat cttaccttta 240

tcacccttgt tcctccaaca atcatcagcc ctattacaac agttaccttt ggtgcattta 300
 ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360
 tactctcagc aacagcagtt tcttccattc aaccaactag gttcattgaa ctctgcttct 420
 taattgcaac aacaacaact accattcagc ca 452

<210> 4982

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-053-Q1-K1-A8

<400> 4982

aaaaaaaaat atttaaaaaa aaataaaaaa aaaattttaa aatcaaaaat gtaaaaatta 60
 acataaaaaa attttaatcg ggagtaaaaa aaaaacaaat ttaataatcc ataattaaaa 120
 aaaaacaaaa tttaaaaaat aataataaaa aacgataaaa gtttaaaaaa aaaatacctt 180
 ggaactttat agttgcaaaa aacaatgggt ttaagaggaa caagggaggg aaaaaacctc 240
 aattaggaaa aagggtttta aaaaatttaa 270

<210> 4983

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-053-Q1-K1-D4

<400> 4983

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 ggagtacaag gatgccaaat tctttgtaat aaagtcctac accgaggacc atgtacatag 120
 gagcattaag tataaagttt gggccagcac agccagcggg aacaggaagc tggattctgc 180
 ttaccatgca gccaaagaga aagaagagca ttgccctatt ttcttgTTTT tctcagtaag 240
 aacagctcat ctcttttggg tttttgctat tttccttcga gggaaaaaaa gagtaccata 300
 ccatatgggg gtttgaacct ttaattagat gggctaaagg gttttcgatt tttgtaattt 360
 cttttatgaa taattggtcc ttttataggg taatggaaat 400

<210> 4984

<211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-053-Q1-K1-E10

 <400> 4984

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 cactccttct cccacccccct cgcccccaac aaataactcca catacaaaa gtcccaccct 180
 aacacgcccc cctccaccat ctcttcactc catcaccacc ataccctctg tcttatccac 240
 ttaatccatc accactacct cctctgctat tcacggcact cgttcaccaa actccgcact 300
 tccccctact tcacttcatt caaaacctcc tctttct 337

<210> 4985
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-053-Q1-K1-G12

 <400> 4985

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 tgggtctttct gcaagtgtg ctacggcgac ctttttcccg caatgtctgc aagctcctat 120
 agcttccctt cttccccgt acctctcacc agcgggtgtct tcggtatgtg aaaaccaat 180
 tcttcaacct tacaggatcc aacaggcaat cacagctggc atcttacctt tatcaccctt 240
 gttcctccaa caatcatcag cctattaca tcagctacct ttggtgcatt tattggcaca 300
 naacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg cctactc 357

<210> 4986
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-054-Q1-K1-A8

 <400> 4986

tacttatttt ttttttttga acgaacgggg accatttatg ccaatatata aagatgcaaa 60

attaagagtc acaagtaact ttgaaagaaa atacaacatt aaccaaggga ctacaaaggt 120
 ggcttagatg aggtctccga atgacactta ggtccttttc agcgtttgcc acacggcgac 180
 acccaacttg gggcctttga aacccttctg aacagcacc ttcattgtgcg ccttgtggga 240
 cttggacacc tcaaccttct tagacttctt ctcacacctg gtcttcttga tgcgctcctt 300
 gatctcacga agagcaactt gtttagcagc atcttggact tcaggctttt cagctctgct 360
 tttctggatc acttccaagg aagcaccac attggacctt gagtatggct tcttgggtggc 420
 gc 422

<210> 4987

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-054-Q1-K1-B2

<400> 4987

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 ccaacaaccc atcattgggtg gtgccctctt ttagattgct tatgagttat agttcaataa 120
 tgaagttttt tggatgaaaa aaaaattaaa aaaaaaaaaa aaaaaaaaaa caaaaaaat 180
 taaaaatatt taaaaattat taataataa aacattaaaa taacccccct taaacttctt 240
 aataaaaagc ctacttttca taattttcca atttttcttt aattccactt ccccttaaaa 300
 ctttccaaaa aaatataccc aaaaaaaaaa aagggggggc ctttt 345

<210> 4988

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-054-Q1-K1-E11

<400> 4988

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 gcgaccaaga tattttccct tcttatgctc cttgggtcttt ctacatgggg tggtaacgcc 120
 acaatttttc cttaatgggtt acaagcttct atagggtccc ttctttcccc atacctttca 180
 tcaattatag cttcagtatg tgaaaaccca gctcttcaac catataggct tcaacaagca 240

atcgcagcaa gcaacatacc tttatcgccc tttgttggtc aacaatcacc agccctatct 300
 ttggtgcagt cattgggtaca aaccatcagg gcacaacagc tgcagcaact cgtgctacct 360
 gtgatcaacc aagtagctct ggcaaacctt ttctcctact ctcagcaaca ac 412

<210> 4989

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-054-Q1-K1-F5

<400> 4989

aagcaacata gaaagtggaa tccagtagca acaatagagc aacaatggcg accaagatac 60
 tttccctcct tatgctcctt gctctttctg catgtgttgc taacgcgaca attttccctc 120
 aatgctcaca agctcctata gcttcccttc ttcccccata ccttccatca atgatatgctt 180
 cagtatgtga aaaccagct cttcaacct atagggtcca acaagcaatc gcagcaagca 240
 acataccttt atcacccttg tttcaacaat cgccagcctt atctttggtg cagtcattgg 300
 taaaaccat caaggcacag cagctgcagc aactcgtgct acctgtgatc aaccaagtag 360
 ctctggcaaa cttttctccc tactatcagc aacaacaatt tcttccattc aaccaactat 420
 ctacactgaa c 431

<210> 4990

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-054-Q1-K1-G7

<400> 4990

aagcaacata gaaagttagaa tccattagca acaatagagc aacaatggcg accaagatgt 60
 tttccctcct tatgctcctt gctctttcta catgtgttgc taacgcgaca attttccctc 120
 aatgctcaca agctcctata gcttcccttc ttcccccata ccttccatca attatagctt 180
 cagtatgtga aaaccagct cttcaacct atagggttca acaagcaatc gcagcaagca 240
 acataccttt atcgcccttg ttgtttcaac aatcaccagc cctatctttg gtgcagtcac 300
 tgggtacaaac catcaaggca caacagctgc agcaactcgt gctacctgtg atcaaccaag 360

tagctctggc aaacctttct ccctactctc agcaacaaca atttcttcca ttcaaccaac 420
tgtctacact g 431

<210> 4991
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-055-Q1-K1-A12

<400> 4991

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tggtctttct gcaagtgtcg ctacggcgac ctttttcccg caatgctcgc aagctcctat 120
agcttccctt cttccccctg acctctcacc agcgggtgtct tcgggtatgtg aaaacccaat 180
tcttcaacc tacaggatcc aacaggcaat cacagctggc atcttacctt tatcaccctt 240
gttccctcaa caatcatcag ccctattaca tcagttacct ttgggtgcatt tattggcaca 300
aaacatcaag gcacaacaac tacaacaact tgtgctagca aaccttgctg cctactctca 360
gcaacagcag tttcttccat tcaaccaact tacttgcat gaactctgct tcttatttgc 420
aacaacaaca actaccat 438

<210> 4992
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-055-Q1-K1-A2

<400> 4992

aagcaacata gaaagtggaa tccagtatca acaacagagc aacaatggcg accaagaggt 60
tttgctcctt tatgctcctt gctcgttctg catgtgttgc taacgcgaca attttccctc 120
aatgctcaca agctcctata gttcccttc ttccccata ctttccatca atgatagctt 180
cagtatgtga aaaccagct cttcagccct ataggctcca acaagcaatc gcagcaagca 240
acataccttt atcacccttg ttggttcaac aatcgccagc cctatctttg gtgcagtcac 300
tggtacaaac catcaaggca cagcagctgc agcaactcgt gctacctgtg atcaaccaag 360
tagc 364

<210> 4993
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-055-Q1-K1-B6

<400> 4993

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gatggctaag atcgccgcgg cggcggcggc ggcgctgtgc ttcgcgggcc tgggtggccgt 120
ggccgtctgc caaagcgagg tcgagcggca gaagct 156

<210> 4994
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-055-Q1-K1-D2

<400> 4994

tagcaacata gaaagcacia tagtgtacca acaatggcag ccaaaatatt ttgcctccgt 60
atgctccttg gtctttctgc aagtgtgtct acggcgacca ttttcccgca atgctcgcaa 120
gtcctatag cttcccttct tccccgtac ctctcaccag cgggtgtcttc ggtatgtgaa 180
aaccgaattc ttcaacccta caggatccaa caggcaatca cagctggcat cttaccctta 240
tcacccttgt tcctccaaca atcatcagcc ctattacatc agttaccttt ggtgcattta 300
ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360
tactctcage aacaggcagt tcttccattc aaccaactag ct 402

<210> 4995
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-056-Q1-K1-E8

<400> 4995

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ttcacctgcc atcgtgggtg catctccac cgccgcacca gctgtcgag ccattactgc 120

tgccaccgtc ggtgcatgtg ccgccgccgg atcatctgac gccgcagcca tgccactacc 180
gtacttagct ggcccagcct cagactcatc ccgagtcgca cccatgcccg tgccaacagg 240
cgcatacaag cccatgccag ctgcacggta cctgcggcgt tggcagcacc ctaatcctgg 300
gccagttcct caagtttctg atgcgtc 327

<210> 4996

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-058-Q1-K1-E10

<400> 4996

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gcgaccaaga tattttgcct gcttatgctc cttgctcttt ctacatgtgt tgctaacgcg 120
acaattttcc ctcaatgctc acaagctcct atagcttccc ttcttcccc atacctcca 180
tcaattatag cttcagtatg tgaaaaccca gctcttcaac catataagct tcaacaagca 240
atcgcgacaa gcaacatacc tttatcgccc ttgttgtttc aacaatcacc agccctatct 300
ttggtgcagt cattggtaca aaccatcatg gcacaacagc tgcagcaact cgtgctacct 360
gtgatcaaac caattgctct ggcaaacctt tctccctaact ctcagcaaca acaatttctt 420
ccattcaacc aactgtctac ac 442

<210> 4997

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-058-Q1-K1-E6

<400> 4997

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tttccatcct tatgctcctt gctctttctg catgtgttgc taacgcgacc atttttctc 120
aatactcaca agctcctata gctgcccttc ttccccata ccttccatca atgaccgatt 180
cagtttgtga aaaccagcc cttcaaccct acaggctcca acaagcaatc gcaacaagca 240
acttaccttt atcaccctg ttctttcaac aatcgccagc cctatctttg gtgcagtcac 300

tgggtacaaac catcaaggca caacagctgc aacaactcgt gctaccagtg atcagccaag 360
 tagctctggc aaacctttct ccctactctc agcaacaaca atttcttcca ttcaaccaac 420
 tgtctacact g 431

<210> 4998
 <211> 480
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-A10

<400> 4998

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 gaactataac tcataagcaa tctaaaagag ggcaccacca atgatgggtt ggtggtagaa 120
 aaactgggtg gtttgtcaaa gcaagggttg ttgaatggca gcaattgttg cagttgtaag 180
 aagggtgccag cgttaggcaa agcgtgcagg tagaacggca acaactggtg gtgggtcaag 240
 aaggcagcag ggctcacatc agctagctgg ctgaatggta gtagttgttg ctgctgtaaa 300
 taagcagcag agttcaatgc tgctagttgg ttgaatggaa gaaattgctg ggggtaggca 360
 gcaactagct ggctgaatgg taattgggtt ttgcaaataa gcagcagagt tcaatgcagc 420
 cagttgggtt aatggaagaa actgatgttg ctgagagtat gcagcaaggt ttgctagcac 480

<210> 4999
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-A4

<400> 4999

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 gtaggaggcc cctgggtctg tcaaagcaag ttggacaaag ggcaacaatt gttgtagttg 180
 taagaggggt gcgggggttag ccgcaaactg ctggttgaaa ggcagcaact gttgctgtgt 240
 caagaaggaa gcacggtttg ctgcagctag ctggctaaat gggagtagta tttgctgctg 300
 caaataagca gcgggggttca gggcgcccaa ttg 333

<210> 5000
 <211> 557
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-059-P1-N6-A5

 <400> 5000

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 gctgctgggt ttgtcaaagc aagttggaca aagggcagca actgttgcag ttgtaagagg 180
 gttgcggggg tagccacaaa ctgctggtag aacggaagca cttgttggtg tgtcaagaag 240
 gaagcggggc ttgtttagc tagctggcca aatggtagta gtatttgctg ctggaaataa 300
 gcagaggggt tcagtgcggc caattggta aatggaagaa attgttgctg ctgagagtag 360
 gcagtagcta gctggctgaa tggtagtagt tggtgttgct gcaaataagc agcaggggtc 420
 agtatagaca gttgggtgaa tggaagaaat tggtgttgct gagagtaggg ggaaagggtt 480
 gccagagcta cttggctgat cactggtagc acgagttgct gcaactgttc tgcctgatg 540
 gtttgtacca atgactg 557

<210> 5001
 <211> 101
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-A9

 <400> 5001

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 aattacaact aataagcaat ctaaaagatg gcaccgccaa t 101

<210> 5002
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-B10

 <400> 5002

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 caattgttgc agttgtaaga tgggtgccagc gttaggcgca acgtgctggt agaaccggca 180
 aaactggggg ttgggtcaag aaggtagcag ggctcacacc agctagctgg ctgaatggta 240
 gtagttgttg ctgctgtaaa taagcaggag agttcaatgc tgctagttgg ttgaatggaa 300
 gaaattgctg ggggtaggca gcaggtagct ggctgaatgg taggtgtttg ttgttgcaaa 360
 taagaagcag agttcaatga acctagttgg ttgaatggaa gaaactgctg ttgctgagag 420
 taggcagcaa ggtttgctag caaaa 445

<210> 5003

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-B12

<400> 5003

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 ccttattgac ggcgacgaat gatctccttt aggcagacgc agacgcaggc gcaggcgcg 180
 catgcttctc gatctgggcc aggagctcgt ccttctctggc acccagcatg gtcgcgaccg 240
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 cttctgtgtg ggagagagga ggaaacagcg tcatcagtac actgtaacgg aaagggggaa 360
 cccggtgaat cgctcgttag ctgtcgggac accgtgctca ccttcacttc gtccacgtcc 420
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<210> 5004

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-B2

<400> 5004

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aactataact cataagaaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaat 120
gctgttgggt ttgtcaaagc aagttgggtg aatggcagca attgttgcag ttgtaagagg 180
gtgccagcgt taggcgcagc gtgctggtag aacggcaaca atttggttg tgtcaagaag 240
gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
gcaggagagt tcaaagctgt cagttgggtg aatggaagaa attgctgggg gtaggcagca 360
gatagctggc tgaatggtag ttgtttgttg ttgcaaataa gaagcagagt tcaat 415

<210> 5005

<211> 85

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-B3

<400> 5005

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gtcagcactt caaatattgaa agtttt 85

<210> 5006

<211> 524

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-B4

<400> 5006

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tcgaggcggg ctacacaagt gtgcaccgtg cactgcaatg cccaacaaca agattgtagc 120
agcaaacatg gaagagaaaag ggcgcggggg gcaaggcagc agttccgcat gacgaggtta 180
ccgcgggttta caatcttcct gataccaac cgtagggaac ccccccctaga tcttgctgag 240
cttgtctgcc ttcaccaccg gattagcctt ggcaatggcg tccctggcag cagtccggta 300
gtcgaacttg cagtcgtgct tgtcggagta gcggtggagt gcgcagtaca agttcccaca 360
ccggcagttg aatcccgtaa gtccaaccct ctccctgcag gcgctgcacc ggttcggccc 420
taccttcccc ctttgagat cgccgccacc ccctcgctgg gtccggcaac atcagcgggc 480
tgttgcacgt tcattgtttg caactcaact tgggcaacag ctac 524

<210> 5007
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-059-P1-N6-B5

 <400> 5007

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aactataact cataagcaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaac  120
actgttgggt ttgtcaaagc aaggtgggttg aatggcagca attgttgcag ttgtaagaag  180
gtgccagcgt taggcatagc gtgcaggtag aacggcaaca actgttggtg tgtcaagaag  240
gcagcagggc tcacatcagc tagctggctg aatggtagta gttgttgctg ctgtaaataa  300
gcagcagagt tcaatgctgc tagttgggtg aatggaagaa attgctgggg gtaggcagca  360
actagctggc tgaatggtaa attgttggtg caaataagca gcagagttca atgcagccaa  420
gttggttgaa tggaagaaac tgatg                                           445
  
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<210> 5008
 <211> 477
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-059-P1-N6-B6

 <400> 5008

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agccgctccg gcgcgcgtctt cgccgccctc ggccgcgcgc acgcgcggggg agccgcgggtg  180
ccgctgtact ggggcgtcgc ggccgacggg tccgcggtga tcaagcgacg accgggacct  240
ggtaagcgc ggctgcggca agtcctacgc gcccttcccc gcgggctgca tgttccacag  300
cgacggaggg ctcaagagct tcgagcacc catgaacagg ctcaaggcca tgccgcgcgt  360
cgacagcgag ggcgccatgt gcggcgccac cttcaaggtc gacaccttca ccaagaatca  420
actocatgcc ccgtgttggc agcgccgcca actgggcccgc ctgggacgaa gccatct    477
  
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<210> 5009
 <211> 69
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-059-P1-N6-C1

 <400> 5009

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 tttttttttt 69

<210> 5010
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-059-P1-N6-C10

 <400> 5010

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 ggaaaaaacg ggggagtttg gaaaaaaaag gggggggaag gggaaaaatg ggtgcagttg 180
 aaaaaggggg ccaacgtag ggaaaggggg cagggaacac ggcaacaact gttggggggg 240
 aaaaagggga aaagggctaa aaaaaactag cggggtgaag gggaaaagt ggggggtgctg 300
 aaaaaaacg ggaaaattca atggcgctag gggggaaaaa ggaaaaaaa gggggggggg 360
 ggcaaaaaca agcggggcga aaggaaaagg ggggtgcaaa aaaacggcaa aatccaatgc 420
 cccagtgagg gtgaaaggaa aaa 443

<210> 5011
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-N6-C3

 <400> 5011

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ggcagcaatt ggttggcatg ttgtaaggag gggtgcccag cggttagggc ccagcgtgct 180
 ggtagaacgc aaaattgttg ttgggtcaag aaggtagcag ggctcacacc agctagctgg 240
 ctgaatggta gtagttgttg ctgctggaaa taagcaggga gaggtcaaag gctgcagttg 300
 gttgaatgga agaaattgct gggggtaggc agcagatagc tggctgaatg gtagttggnt 360
 gttgttgcaa ataagaagca gagttcaatg cagctagggtt ggttgaatgg aagaaactgt 420
 tgttgctgag agtaggcagc aag 443

<210> 5012

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-C5

<400> 5012

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 aagaagtctg agcgcatgct catgagcgcc gaggagaagt tcccaggcaa ggtgcgcgcc 120
 gtgggtcaagt tcaacgcggc gctggcgcac cacatcatgg ccggcgccga cgtgctcgcc 180
 gtcaccagcc gcttcgagcc ctgcggcctc atccagctgc aggggatgcg atacggaacg 240
 ccctgcgcct gcgcgtccac cgggtggactc gtgcacacca tcatcgaagg caagaccggg 300
 ttccacatgg gccgcctcag cgctcgactga acgtcgtgga gccggcggac gtcaagaagg 360
 tggccaccac attgcagcgc gccatcaagg tggtcggcac gccggcgtcg aggagatggt 420
 gaggaactgc atgtccaaga tctctcctgg aagggccctg caagactggg agaactgct 480

<210> 5013

<211> 550

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-N6-C6

<400> 5013

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 tgaactagct atagccctat aggtagctag tcagcggctc cattacatta ttactacagt 180

acatagtttc ctcagtagta gacaccgccg gcagctgcgt tgcaagggca gggacctggc 240
 tgctgcagct gcagaccgca catcgccgct agctgctgcg ctacctgggc cgccatcage 300
 gccgcgagct cgccctgogg ctgctgctgc aggaaggact gcaggaccac accgtatgtc 360
 gcctggtacc ggtgcagogg etccacctgc ctgatctggt ggcagcactg ctgctgcage 420
 gcctggcact gtggcgagcc gtanggcgct gccgccgggc tgcactggtg cctcaggaac 480
 tcgacgcact ggcccaggaa cgggctgccg acgctgccga cgccgnagga tccgaactgc 540
 tggcacgggc 550

<210> 5014

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-N6-D11

<400> 5014

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 aaaaaaaaaa aaaaaaaata aatttttttt ttccaaaccc ccggggggggg gggggggggtt 120
 tttttttttt attaataaaa aaaaaaaaaa aaaaaaaaat taactcctcc cccccccccc 180
 aaaggaggga ggggggggaa aggggggttc cccccccccc cccccctct tttttttttt 240
 tttttgtggg ggggggcggc gcgccccaaa aaaaaaaaaa aaaaaaaaaa ggaggggggn 300
 nttntngggn tttttttttt aaaaaaaaca aaaaaataaa aaaaaaaaaa aaaaaanaa 360
 aaggcggggg gggggggggg g 381

<210> 5015

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-N6-D12

<400> 5015

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 cccccacccc ccccccccc ccccccccc ccccccgcg cggggggggg gggggggaga 120

aataaaataa tattattatt ttttnnnnnn nnnnnaaaaa aaaaaaaaaa aaaaaaaagg 180
 gggggggggg gggggggcgg gggcccccgc gccacaaaac caaaaaacan aaggggnnnng 240
 gggntttttcc cccccccccc cccccccccc cccccccnc ccgngggggg gggggggggg 300
 ggggtgtttt tttatattna taaaaacccc cccccccccc cncctcttt tttttttttt 360
 tttttttttc cccccccccc ccccccc 387

<210> 5016

<211> 537

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-D2

<400> 5016

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 tgtaacaaac taccctactg tacagtagta gccgcatgca caaaaattac cgcagtaaca 180
 gtgaaaaaca cccactgcat catctgccac ctgtctctgt ctcttgttc tctttaaccg 240
 ctcgatcgat ctcttattac ccttcacgtg ccgttttcac cgcacgatt caaccactcc 300
 gtgaagaccc caagcttttg agggttctta ttaattaccc taacgaatca ataaataacc 360
 atatcaccac caatattttt tttactgtaa catctaagag ggcgaccact gtaactagcg 420
 cagcaacgaa tggagaaatg ggaggggtgg caacagcgac gacgacacga catggatcga 480
 ggggtggcta cgacctgcat gaagaattgg agaatcgccg gaaatagaag gaagggg 537

<210> 5017

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-D3

<400> 5017

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 gccatagttg gtttcgaatt acatgcatac atacatcaca cacggcctca ctcatcaaaa 120
 caaaacaata aaataaataa acaaataaat aaatagtttc aagaactgca gctacgtcta 180

tgtgcgtggc cacctttgca cgacactgac ccggtcacaa acgcacgcac gcactctgcg 240
 tgcgctctgc tggcggctgc tgccctgccc actcaaaatt gtgctgctat atgttggcaa 300
 ggtctacccg acgttcgcca caaatggcac cagcccgtt gtgatccctc ttgcgcecaa 360
 gcgcgcaggt atcaagaact cgcccaagca gcagccggg tgttctgcag cgct 414

<210> 5018
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-D5

<400> 5018

agaaatgtac tttcttattt ctgggaagcc acaaacaatca gataaaaaac tttattattg 60
 aactataact cataagaaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaac 120
 actgctgggt ttggcaaagc aagttggttg aatggcagca attggtgcag ttgtaagagg 180
 gtgccagcgt taggcgcaac gtgctggtag aacggcaaca actgggggttg ggtcaagaag 240
 gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
 gcaggagagt tcaatgctgc tagttggttg aatggaagaa attgctgggg gtaggcagca 360
 ggtagctggc tgaatggtag ttggtgggtg ttgcaaataa gaagcaga 408

<210> 5019
 <211> 484
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-N6-D6

<400> 5019

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 aactataact cataagaaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaat 120
 gctgttgggt ttgtcaaagc aagttggttg aatggcagca attggtgcag ttgtaagagg 180
 gtgccagcgt taggcgcagc gtgctggtag aacggcaaca attgtggttg tgtcaagaag 240
 gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300

gcaggagagt tcaaagctgt cagttggttg aatggaagaa attgctgggg gtaggcagca 360
gatagctggc tgaatggtag ttggttggtt ttgcaaataa gaagcagagt tcaatggcag 420
ctagttggtt gaatggaaga aaactgtntg ttgctgagag ttaggcagca agggttgcta . 480
gcac 484

<210> 5020

<211> 484

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-N6-D8

<400> 5020

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acgctgctgg gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
gggtgccagc gttaggcgca acgtgctggt agaacggcaa caactgtngg ttgtatcaag 240
aaggtagcag ggctcacacc agctagctgg ctgaatggta gtagttgttg ctgctgtaaa 300
taagcaggag agttcaatgc tgccagttgg ttgaatggaa gaaattgctg ggggtaggca 360
gcaggtagct ggctgaatgg tnagttgttg gtgttgcaaa taagaagcag agttcaatgg 420
cagctagttg gttgaatgga agaaactgct gttgctgaga gtaggcagca aggtttgcta 480
gcac 484

<210> 5021

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-E1

<400> 5021

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aattacaact aataagcaat ctaaaagatg gcaccgcaa tgatgtgttg ttggtagaag 120
gctgctgggt ttgtcaaagc aagttggaca aagggcagca actgttgagc ttgtaagagg 180
gttgcggggt tagccacaaa ctgctggtag aacggaag 218

<210> 5022
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-059-P1-N6-E10

 <400> 5022

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 agaaccacgt tacgcactaa attccatctt ttcgctttga aatggggtag cgatacatca 120
 cagcagggtc ttgggtcacg gcgccacaaa atgcacatgc cggtcatgtc tcatggatta 180
 gtcagcaagt ggggaaaaag cttagccatc acaaggcaac cggtcctcct aaaactccat 240
 tgtacatatg agatattccc tctcgaaaat caggaactcc tgcaactgct gctggctgaa 300
 caaatgcac attccagact cggctgaacc aactaactca acaagttcgt cacatttatc 360
 tagagagtaa tctagatcat caccagccgc ggagagtgcg atacatgcct gcatagatct 420
 tagaattgtt tcaggaaggc agcacctccg acacag 456

<210> 5023
 <211> 210
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-059-P1-N6-E3

 <400> 5023

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 aaaaaaggaa aaaagggaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaga 120
 agaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ttaaaaaaag acagccggaa 180
 cgggggaaaaa ggtgagtcta aaatttttaa 210

<210> 5024
 <211> 463
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-059-P1-N6-E8

 <400> 5024

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 caacaaggca gggttcatca aaaaaaactg gttgtatggc aacaattgtt gctgctgtag 180
 gaaggcaacc accaatgggt tagccaccgc taggggatta agtaactgtt gtcgctgttg 240
 taggtcccca ccaaagtctg acacaatcag ttgggtgaat ggaaccagct gttgcaagta 300
 ggcagcaggg tttgccacag ctagctgagt caaagctggc acaatctgtt gcaacaactg 360
 ttgttgcagg tatgtagggt cattaaccac agcgagaggg ctagatgaaa tcaattgttg 420
 ctgtttagg taggcggcag gggtcaccat ggctagttag ctg 463

<210> 5025

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-E9

<400> 5025

aaatctcaac caatatattg attatttcta ggaaacacat gccggtatga gggcaccatt 60
 atcgagtaca tctcatatgt aatctaaaag atggcacctc caacgatggg ttgctgcctc 120
 gacaagacag gattcatcaa agagaaccgg ttgtatggca gcaattgttg ctgctgtagg 180
 aaggcagcga ccaatgggtt agccactgcc aatggattaa gtaactgttg tcgctgttgt 240
 aggtacgcaa cagagtctga catagttagt tggttgaatg gaa 283

<210> 5026

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-F10

<400> 5026

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 ggattgcata aaacggggaa aggaaaaaaa acgaaaggga taccgaattc ttgaaataaa 120
 aaaacaaata aagtgaacca agccgcaaata ataatttagg gaaaggaggagg gggacaagcc 180
 gcccatcgta ggttgggttt gtgggggaga aaaaaatgac acccaagttt gagttgggtg 240

ttcaaaacca aaaaagaaa aaggctggtg gtggattgct tgctgaatta aggggggaac 300
cacctgacaa aaaggtggg aaaatggttg gggaaaaaac tggcaaaaac ctggaaaaaa 360
ttggggggaa aaaaacaaaa aaataacggg ggggattaaa cgccccgaa gaaaaggaaa 420
aaaacaaggg caaaactggc gccaaaaaaa ataaagacaa attttccaaa a 471

<210> 5027

<211> 581

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-F11

<400> 5027

atcgagataa atctcaatca atatattgat tatttctagg aaacacatgt cggatatgagg 60
gcaccattgt cgagtacatc tcatatgtaa tctaaaagat ggcacctcca acgatggggtt 120
gctgcaaggc agggttcatc aaagagaact ggttgatgag cagcaattgt tgttgctgct 180
gcaggaaggt agcgaccaat gggttagcca ctgccaatgg attaagtaac tgttgctgct 240
gtttaggta cgcagcagag tttgacacag ccagttgggtt gaatggaagc aactgttgta 300
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actgttggtg taggtacgta ggtgcattgc ccaccgagc cgggctagat gaaagtagtt 420
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gctgtttgtt gttgctggta tgcagctacg ttcgccagag caagtggggt tggatgcaag 540
cagctgctgt tgcaagtagg tgacagggtt caccacggct a 581

<210> 5028

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-F4

<400> 5028

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tactacttta cataggcacg agcacaagt catgatatgt acaaccgtcg atgggtccac 120
agtccccaga tgatacgagc tcgctcacag ggacatgggg cagcagacct cggggggctt 180

tgctatttga tctttaccat caagcactgg gtccccgagc catcgggctc cacctcgccg 240
 agttgtagct gctgcaagcg ctgatgctcg actccctcat tttcatctca gatataccac 300
 tgttgcaa at gtttgcaa ac gctctcatgt acttcatgcc ggactgggta agtgaacccc 360
 actgggac 368

<210> 5029
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-F5

<400> 5029

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 ccggtccatt attaaaccaa cactgacacg aacagcagat acttcgacaa cctccatatg 120
 gagagggcac cagacgacgc aggcacatcg gcagcttaaa cgacccatga cttactgacc 180
 accacggaga cggagcacaa ggtggagggt gctctccttt tggatgttgt agtctgctag 240
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 gccctccttg tcttgatct tcgccttcac attgtcgatg gtgtccgagc tctcaacctc 360
 cagggttatg gtttttccag tcagggtctt cacaaagat 399

<210> 5030
 <211> 414
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-N6-F9

<400> 5030

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 ggtaatggaa atacaaaggt tcataaaaag gtttgctgca acttctaggg cagcttataa 120
 cagtacatac tagcagcaca aatgggtaag gaacaggggg gggggaaacg catcttgccg 180
 ccgaacgctc gacttctgt caagcgggtc ttaccatacc aaggttacac gatccatcna 240
 tgcaatacca ttggagggtc ttgttttgta gacgcaaacc cagccgatct atatgacaga 300

cccatcgttg atgggtgcat tcttaaagat caccacnatt ccagacctta tgtaaaaccc 360
 ttctatgggg ggaaaaggct tttggaagcc cttactgggtg gggatcacca catt 414

<210> 5031
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-G12

<400> 5031

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 gttttttggg gggggggggg ggggacagcc cccctcctg ggggggggtg gtggccgctc 180
 aaaaaatccc atccccctt gggggggggg gggggacccc ccccccccc cggggggggg 240
 ggggggcccc ccccggtt ggggggcccc ccctttgtcg aattgggggg ggaaattttt 300
 ggggccaat cccccaaaa aatgaaaaac gtggggggga gagcgcgggg ggaattggg 359

<210> 5032
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-G2

<400> 5032

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 cccattatcg agtacatctc atatgtaatc taaaagatgg ccccccaat gatgtgttgt 120
 tggtaaaagg ctgctgggtt tgtcaaagca agttggacaa agggcagcaa ctgttgca 180
 tgtaagaggg ttgcggggtt agccacaaac tgctggtaga acggaagcaa ttgttggtgt 240
 ttcaaaaagg aagtggggct tgttgtagct agctggccaa atggtagtag tatttgctgc 300
 tggaaataag cagaggggtt cagtgcggcc aattgggtta atggaaaaaa ttgttgctgc 360
 tgagagtagg cagtacctag ctggctgaat ggtagtagtt gggtgtgtgt gtaaataagc 420
 agcaggggttc agtgtaaaca gttgggtgaa tgga 454

<210> 5033

<211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-059-P1-N6-G4
 <400> 5033

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 aactgttggt gtttgtcaaa gcaagttgggt tgaatggcag caattgttgc agttgtaaga 180
 gggtgccagc gttaggcata gcgtgcaggt agaacggcaa caactgttgt tgtgtcaaga 240
 aggcagcagg gctcacatca gctagctggc tgaatggtag tagttgttgc tgctgtaaata 300
 aagcagcaga gttcaatgct gctagttgggt tgaatggaag aaattgctgg gggtaggcag 360
 caactagctg gctgaatgggt aatttgttgt tgcaataag cagcagagtt caatgcagcc 420
 agttggttga atggaagaaa ctgatgttgc tgagagta 458

<210> 5034
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-059-P1-N6-G5
 <400> 5034

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 tattgaacta taactcataa gaaatctaaa agagggcacc accaatgatg ggttggttgg 120
 agaatgctgt tgggtttgtc aaagcaagtt ggttgaatgg cagcaattgt tgcagttgta 180
 agaggggtgcc agcgttaggc gcagcgtgct ggtagaacgg caacaattgt ggttgtgtca 240
 agaaggtagc agggctcaca ccagctagct ggctgaatgg tagtagttgt tgctgctgta 300
 aataagcagg agagttcaaa gctgtcagtt ggttgaatgg aagaaattgc tgggggtagg 360
 cagcagatag ctggctgaat ggtagttgggt tggtgttgca ataagaagca gagttcaatg 420
 cagc 424

<210> 5035
 <211> 555
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-G9

<400> 5035

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aacaacctca acctttaaaa agttcacagt acctattctt cttattggtg aaacgataga 180
ataccaacgg cgaaagaaaa catcataaat ggcagatgaa gcctccgaag aaaccggcag 240
ccccactgc gaggggtgtcc agccggccgg gcccgccggc gatcagctgt ggttgtggtc 300
gttgtgcggc gctgccggtg ccgccatcgc ctgctgcctg ataaccgtgt cctcgagggg 360
ttggaggttg caccgaacga tgggtgtccac gaagatgcgc gtctcctcca cggtgttccc 420
cggcggcacg tccaccacat aggactcgac gaccatgggt agcggcccgcc cctctgaggg 480
cgcctcgtgc acggtggtca cggagcggta gttggcgagg cggtggtcgc cgcccaggat 540
ccggaagctg atcac 555

<210> 5036

<211> 579

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-H10

<400> 5036

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tgctgcaagg caggggttcat caaagagAAC tggttgtatg gcagcaattg ttgttgctgc 180
tgcaggaagg tagcgaccaa tgggttagcc actgccaatg gattaagtaa ctgttgctgc 240
tgttgttagt acgcagcaga gtttgacaca gccagttggt tgaatggaag caactgttgt 300
aagtaggcag caggggttgc cacagctagc tgagtcagag ctggtacaat ttgttgcagc 360
aactgttgtt gtaggtacgt aggtgcattg cccaccgcga gcgggctaga tgaaagtagt 420
tgtaggtaga cggcaggggt caccatggct agttgactga gcaactggcat aaactgttgc 480
agctgttgtt gttgctggta tgcagctacg ttcgccagag caagtgggtt ggatgcaagc 540

agctgctggt gcaagtaggt gacaggggtc accacggct

579

<210> 5037

<211> 579

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-H11

<400> 5037

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ccactctagc gcagctgaaa cttaaccata acagactgac tggtaactat tggtgctgat 180

gctgcatgta ggcactctacc aatggggttag ccactgccaa tgaattaagt atctagtctg 240

gagtgggtgat ggtccccac aaagttcgcc acaacctgct tggcgaatgg aagcagctga 300

tggaagtacg caggacggtt tgccacacct agctgagcca aagctggtac aatttgctgc 360

atcatctgga gatgtacgta cggacgtgca ttgccaccg tgagcggcct acatgaaagt 420

agttgtaggt agacggcagg gttcaccatg gctagttgac tgagcactgg cataaaactgt 480

tcagactggt gttgttgctg gtatgcagct acgttcgcc gagcaagtgg gttggatgca 540

agcagctgct gttgcaagta ggtgacaggg ttcaccacg 579

<210> 5038

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-H2

<400> 5038

aaaaagaaac caccacgcgg gggaaggcaa acagacggaa ccgaaacagg ggaagacagc 60

acagataagc atgccgaggc aaccaggtag ctaccaagc tggcttgctg ccctatgaca 120

aagggttaacg cccgaggggt acagaaagtg caacacaaca cgagcacaca ggcgcccggc 180

acgccagtgg tacgggcaag tagcgacaca gcaccagggg ctgacaaagt catgagcctg 240

gacacatcaa cgcgaagagt ccacatctgg acccaaagag cactcagagc gcaaggcagg 300

<210> 5039

<211> 546
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-059-P1-N6-H4

 <400> 5039

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 attattgaat tacaactaat aagcaatcta aaagaggga ccaccaatga tgtgttggtg 120
 gtaggaggcc gctcggctctg tcaaagcaag ttggacaaag ggcaacaatt gttgtagttg 180
 taagagggtt gcgggggttag ccgcaactg ctggtagaaa ggcagcaact gttgctgtgt 240
 caagaaggaa gcacgggttg ctgcagctag ctggctaaat gtagtagta tttgctgctg 300
 caaataagca gcgggggttca gtgcggccaa ttggttaa at ggaagaagtt gttgttgctg 360
 agagtaggca gtagctagct ggctgaatgg taatagttgt tgctgcaaat aagcagcagg 420
 gttcagtga gacagttggt tgaatggaag aaattgttgt tgctgagagt agggagaaag 480
 gtttgccaga gctacttggt tgatcacagg tagcacgagt tgctgcagct gctgtgccct 540
 gatggt 546

<210> 5040
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-N6-H7

 <400> 5040

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 gcaccattat cgagtacatc tcatatgtaa tctaaaagat ggcacctcca acgatgggtt 120
 gctggcacia caaggcaggg ttcacaaag agaactggtt gtatggcagc aattgttgct 180
 gctgtaggaa ggcagcgacc aatggggttag ccaccgctag tggattaagt aactgttgct 240
 gctgttgtag gtacacagca gagttcgaca caancagggg gctgaatgga agcagaagaa 300
 gcaagtgggc atcagagttg gccacagcta gct 333

<210> 5041
 <211> 568

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-059-P1-N6-H9
 <400> 5041

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agaaatgtac tttcttattt ctgggacgcc acaaacatca tccaaaaaac ttcattattg   60
aactataact cataagcaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaac  120
actgttgggt ttgtcaaagc aagttgggtg aatggcagca attgttgcag ttgtaagagg  180
gtgccagcgt taggcatagc gtgcaggtag aacggcaaca actgttggtg tgtcaagaag  240
gcagcagggc tcacatcagc tagctggctg aatggtagta gttgttgctg ctgtaaataa  300
gcagcagagt tcaatgctgc tagttgggtg aatggaagaa attgctgggg gtaggcagca  360
actagctggc tgaatggtaa ttgttggtgc aaataagcag cagagttcaa tgcagccagt  420
tggttgaatg gaagaaactg atgttgctga gagtatgcag caaggtttgc tagcacaagt  480
tggtgtagtt gttgtgccct gatggtttgt gccaccaaat ggaccaaagg taactgctgt  540
aatagggctg acggttggtg gaggaaca                                     568

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<210> 5042
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-060-P1-N6-A2
 <400> 5042

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atagagaaac aaaaaaaaaag aaaagtaatg ataaaggga aaaaaaaaaa attaaactgaa   60
aaaaataaaa aagcaaaata agtttttcta aaaaaaagat aaaaaaaaaa aatgggccta  120
acaaaaaaa ccagttaaaa aaaggtaaaa ctaaaatata aaattatgct taaaaaaaaa  180
aaaaaattat gggtgcaaaa aaaaaaagcc accccaatat ataaaaatac atggttttaa  240
aaattttgaa aaaaacccaa gtgaaaaaaaa aaataaaaaa ttgggtttta aaaaaaaagt  300
ttaaaaagaa atggaaattt aaattttcaa tgttaaaaaa ataattttgc ctggaaataa  360
aaccttttt                                     369

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<210> 5043
 <211> 480

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-060-P1-N6-A5
 <400> 5043

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 aactataact cataagaaat ctaaaagagg gcaccaccaa tgatggggtt ttggtagaat 120
 gctgctgggt ttggcaaagc aagttgggtt aatggcagca attgttgcag ttgtaagagg 180
 gtgccagcgt taggcgcagc gtgctggttag aacggcaaca actgtgggtt tgtcaagaag 240
 gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
 gcaggagagt tcaatgctgt cagttgggtt aatggaagaa attgctgggg gtaggcagca 360
 gatagctggc tgaatggtag ntgtntgttg ttgcaaataa gaagcagagt tcaatgcagc 420
 tagttgggtt aatggaagaa actgctgttg ctgagagtag gcagcaaggg ttgctagcac 480

<210> 5044
 <211> 577
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-060-P1-N6-A7
 <400> 5044

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 attattgaat tacaactaat aatcaatcta aaagagggca ccaccaatga tgtgttggtt 120
 gtaggaggct gctgggtttg tcaaagcaag ttggacaaag ggcaacaatt gttgtagttg 180
 taagagggtt gcgggggttag ccgcaaactg cttgtagaaa ggcagcaact gttgctgtgt 240
 caagaaggaa gcacgacttg ctgcagctag ctcgctaaat ggcagtagta tttgctgctg 300
 caaataagca gcgggggttca gtgcggccaa ttgggttaa ggaagaagtt gttgttgctg 360
 agagtaggca gtagctagct ggctaaatgg taatagttgt tgctgcaaat aagcagcagg 420
 gttcagtgtg gacagttggt tgaatggaag aaattgttgt tgctgagagt agggagaaaag 480
 gtttgcaga gctacttggt tgatcacagg tagcacgagt tgctgcagct gttgtgccct 540
 gatggtttgt accaatgact gcacaaagat agggctg 577

<210> 5045
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-A9

<400> 5045

ctggaaatgt aacttcttat ttctggttgg ccacatacat catccaaaaa actttattat 60
 tgaattacaa ctaataagca atctaaaaga gggcaccacc aatgatgtgt tgttggtagg 120
 aggccgctcg gtctgtcaaa gcaagttgga caaagggcaa caattgttgt agttgtaaga 180
 gggttgcggg gttagccgca aactgctggg agaaaggcag caactgttgc tgtgtcaaga 240
 aggaagcacg gtttgcgtca gctagctggc taaatggtag tagtatttgc tgctgcaaat 300
 aagcagcggg gttcagtgcg gccaatgggt taaatggaag aagttgttgt tgctgagagt 360
 aggcagtagc tagctggctg aatggtaata gttgttgctg caaataagca gcagggttca 420
 gtgtagacag t 431

<210> 5046
 <211> 512
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-B11

<400> 5046

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 tgccacgaca aggcagggtt catcaaagag aactggctgt atggtagcaa ttgttgctgc 180
 tgtaggaagg cagtgaccaa tgggttaggc actgctagtg gattaagtaa ctgttgctgc 240
 tgttgtaggt acgcagcaga gttcgacaca gtcagttggt tgaatggaag cagctgttgc 300
 aagtaggcag cagggtttgc cacagctagc tgagtcagag ctggtacaat ctgttgacgc 360
 aattgttgtt gcaggatatgt aggtgcatta cccacaacga gagggctaga tgaaagcagt 420
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 aactgttgca attgttggtt ttgttggtat gc 512

<210> 5047
 <211> 532
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-060-P1-N6-B12

 <400> 5047

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 tattattgaa ctataactca taagaaatct aaaagagggc accaccaatg atggggttgtt 120
 ggtagaacgc tgctgggttt gtcaaagcaa gttgggtgaa tggcagcaat tgttgagtt 180
 gtaagagggt gccagcgcta ggcgcagcgt gctggtagaa cggcaacaac tgtgggttga 240
 tcaagaaggt agcagggtc acaccagcta gctggctgaa tggtagtagt tgttgctgct 300
 gtaaataagc aggagagttc aatgctgcc a gttgggtgaa tggaagaaat tgctgggggt 360
 aggcagcagg tagctggctg aatggtagtt gttgttgttg caaataagaa gcagagttca 420
 atgcagctag ttgggtgaat ggaagaaact gctgttgctg agagtaggca gcaaggtttg 480
 ctagcacaag ttgtttagt tgttggtgcc tgatgttttg tgccaataaa tg 532

<210> 5048
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-060-P1-N6-B3

 <400> 5048

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 caatgatggg ttgggggtaa acccctgtgg ggtttgccaa accaggtggg ttgaagggca 120
 ccaattgttg cagttgaaag aggggccag cgtaggccc accgggcagg taaaacggca 180
 ccacctgttg tgggggtcaag aaggcaacag ggctcacatc acctagctgg cttaatgggg 240
 gaagctgttg ctgttgaaaa taaccagcaa agttcaatgc tgccagtggg ttgaagggaa 300
 aaaattgctg ggggtgggca gcacctacct gactgaaggg tagttgttgt tgcaaataac 360
 cagcagagtt caatgcaccc agttggttga atggaaaaa ctgctgttgc tgaaagtagg 420
 caccagggtt ccctacccc 439

<210> 5049
 <211> 579
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-060-P1-N6-B4

 <400> 5049

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tatgggatga ggcctccata tcagatttca tcctagggcc cccaaaattc aggaacctcg  180
ctgtgccccat gcagtgtggg aaaagatgcg cgcttcctgt aatcctgtgt gctgacggcg  240
tgcgTgcata tataagcacc gcggaacgac agagatttca aattttgaaa tggTcaaTc  300
taacaccgga tgttgtgagg aagaatctca gtgtcctccc aatagacaaa tatggacaca  360
ttgtcactgt gctacatcaa atggatcttt cagttaccac acctttaccg gaagttcggg  420
caaatcccta agtacgatcc ggaagtccac caccttgaat cctnccctt tctcccttc  480
ttcttccctc caccaaaatc caattggaga catgcaccaa cgcgacgtaa atccgagcgg  540
gaaagaatga caccttggag agagggcttg aggagggggg                          579
  
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<210> 5050
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-060-P1-N6-B6

 <400> 5050

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caagaggagc tttgtgaatc ctgcataaac tttcccctgc tccttcacga gagcagacaa  120
ccagacaaaac tagcttctaa tgcacggggg cccctgaatc aaaaaaaaaa gctgttaatg  180
caacaatctg aacgagctac atttaaataa ggccccacat acaaagatga cgacgaggag  240
gagaacaaaa aggagcaaaa acaccactga accaatcctg tgcaccccct ccgatacttc  300
tcaaggatgg ccctggcact ctagtccat ggacgatggg ctgcatgcc a tcacgaacat  360
  
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nctgcctcgt ctactccgtg

380

<210> 5051

<211> 606

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-B7

<400> 5051

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ccagatgtat ctgggtagac tgctaaaatt ccagtcagc atttgtatgt aaactctgca 180
aaggaattat tttcatctca aaatgaatct tcccccaacc caaaaagaaa aagaaactta 240
acagttgact tctttgatga ctgggtatata ttctactacc tctgaacctt tccctcatat 300
aatgtgctcg aaagcagcct cgtgtgagga aacagcttca acaccatcca agaacataca 360
gagatttgca ggctttctat tgcaacatac actctctaac atacggatgt gagatattca 420
cataccgctc ccatatatac ttgtaacggc gaatagccag cttcagccac ggtttcatgt 480
tttccgttat agtgacacaac agcagcactc tcaatcaaac ggtcatctat gtctacatca 540
taccgaagac ccaagacatg ccacctcgcg gtctaggggc tccaccaggc cgtaaaatgt 600
caaaag 606

<210> 5052

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-B8

<400> 5052

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gggggggagga aaccccaaaa acagagcaaa aagggggccc cccatgggtg ggctgtggga 120
aaaaccccgg gggggaggcc aaaccaaggg ggggggaagg caacaatcgg ggcagcggga 180
agagggggcc cgcacaaggc ccaccgggcc ggtaaaaccg cacccccggg gggggggcca 240
aaaaggggaac aggggtcaca acaactacct ggggtgaaagg gggaagccgt tgccgctgga 300

aaaaaccagc aggcttcaat gccgcccgtt ggggtgaaag aacaaaatgc tgggg 355

<210> 5053

<211> 484

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-B9

<400> 5053

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tgaactataa ctcataagaa atctaaaaga gggcaccacc aatgatgggt tggttgtaga 120

atgctgctgg gtttgtcaaa gcaagttgggt tgaatggcag caattgttgc agttgtaaga 180

gggtgccagc gttaggcgca gcgtgctgggt agaacggcaa caactgtgggt tgtgtcaaga 240

aggtagcagg gctcacacca gctagctggc tgaatggtag tagttgttgc tgctgtaaata 300

aagcaggaga gttcaatgct gtcagttgggt tgaatggaag aaattgctgg gggtaggcag 360

cagatagctg gctgaatgggt agttgtttgt tgttgcaaata aagaagcaga gttcaatgca 420

gctagttgggt tgaatggaag aaactgctgt tgctgagagt aggcagcaag gtttgctagc 480

acaa 484

<210> 5054

<211> 595

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-C10

<400> 5054

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aactataact cataagcaat ctaaaagagg gcaccgcaa tgatgggttg ttggtagaac 120

gttggtgggt ttgtcaaagc aagttgggtt aatggcagca attgttgtag ttgtaagagg 180

gtgccagcgt taggcgcagc gtgcaggtag aacggcaaca actgttggtt tgtcaagaag 240

gcaacagggc tcacatcagc tagctggctg aatgggtgta gctgttgctg ttgtaaataa 300

gcagcagagt tcaatgctgc cagttgggtt aatggaagaa attgctgggg gtaggcagca 360

gctagctgac tgaatggtag ttgttggttgc aaataagcag cagagttcaa tgcagccagt 420

tgggttgaatg gaagaaactg ctgttgctga gagtaggcag caaggtttcc tagcacaagt 480
 tgttgtagtt gttgtgcctt gatgttttgt gccacaacat gcaccaaagg taactgctgt 540
 aatagggctg acggttggtg gaggaacaag ggtgataaag gtaagatgcc tgctg 595

<210> 5055
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-C12

<400> 5055

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 aatagttttt atcatttttg aaacaaaccc ccgagatttt tgggagccca cgtaagagct 120
 ccgttatattt ggatttgccc cccacagaa caaatgctgg cccttgacg tggcgccaac 180
 taattttttt tttttaacc ctggtagcta gtactggctc ccccggaaa aaatgctcca 240
 ctccgggggc tccgacagcc ggcacattat gggaaacccc ggggggtact cccgggcctt 300
 tgaaagccta acgcggccaa tccttggccc gggggtgccg ggacaacacg ggggatacat 360
 ctgcgttggg tatccctttc ctgcccgggt gaaggggtag taatacccc cttgttcttt 420
 ttttttttct tggggggggg gtttttgttt cccccccat 460

<210> 5056
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-C2

<400> 5056

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 cgagtccgga tttttgctgg tcggactaaa cagttttgtc gtcagggccc cccaaaacaa 180
 aaaaaccaac caaccaaccc tggatgtgtt tttgaaatga gatgagatgg gttattcagt 240
 acaacgggat cgatgcgctt ccttaaccga ggggggcttt actggatgca agacgggtta 300
 gtcattagcg gtctcctccg atcaggggtt tagcaaaaac taccgagca gcagggcatg 360

tgctccagg aatgcgaatt aattt

385

<210> 5057

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-C5

<400> 5057

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atttgatcc gacacttcaa agctccataa ctactagaa ctgaatccaa aaataatccc 180
agcacaggca atcagtagct ggggccccag aacgaccact tcttggtggtg ctttccagat 240
gcaaagcaca gggtagcttc tggaagttct ggctgctcaa atggagaaca caatgttttc 300
gcagctccaa gttccccctt tgccgaggtt ttacatctt tctaaattcc ctctcatca 360
caccatggag ccaagatcaa ctttttggtt ttcagagcag ttgtgaattc atcccaagtg 420
ttcacgacat gaacacaggc a 441

<210> 5058

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-060-P1-N6-C6

<400> 5058

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aactttttaga tttctatgtc aagccagaca agaggagcat tgtgaatcct gcataaactt 120
tcccctgctc cttcacgaga tcagacaacc aggcaaacta gctactaatg cactgatacc 180
cctgaatcac aaatagtagc tgctaattgca acaatctgaa cgagctacat ttccataatc 240
ctacaaatac aaagatgacg acgaggagga gaaccaaag gagcaaccgc accactgaac 300
caatctgtgc agcctctcct ttccttctca aggatggcac tgccactcta gtcacatgga 360
cgctgtgctg catgccatca cgaacatcct gcctcgtctn ctccgtgcgc cgctgcctga 420
gattgcctcc atgatgcagc tcacat 447

<210> 5059
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-C9

<400> 5059

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atccagtgtg cacaaggcac tcaaggccac accataccaa ctcacaaaca agtatagtac 120
tgctagctag tctacagtct gcgccgtgca cggataattt catagttcat actgctcagc 180
gcacgctcac aactcaccca tgcgctacgc gaggagcccc ctggcgatgc ggccgtctgc 240
gccctgagga aagaagcctc catgctgtgc ggagttaccg gtgccgtaca cgatgccgag 300
gatctcctcc ggcgctccggt cgtatgcgag cgacatgtgg tcgccagcga tgatgttccc 360
cacagtcagt ccctcgggtc cgagctcggg cgccaccacc aggccttagt ccttcacgcc 420
cctacttcgc agcgagt 437

<210> 5060
<211> 483
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-D12

<400> 5060

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gtagaacact gttgagtttg tcaaagcaag ttggttgaat ggcagcaatt gttgcagttg 180
taagaggggtg ccagcgttag gcatagcgtg caggtagaac ggcaacaact gttgttgtgt 240
caagaaggca gcagggtcga catcagctag ctggctgaat ggtagtagtt gttgctgctg 300
taaataagca gcagagttca atgctgctag ttggttgaat ggaagaaatt gctgggggta 360
ggcagcaact agctggctga atggtaattg ttgttgcaaa taagcagcag agttcaatgc 420
agccagttgg ttgaatggaa gaaactgatg ttgctgagag tatgcagcaa ggtttgctag 480
cac 483

<210> 5061
 <211> 512
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-060-P1-N6-D3

 <400> 5061

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 ttatataaca agacatttgc aaacttctaa ggcacagttg gaaatctagt ttcataactga 120
 acaaacgaca gtcataagcc ataacctcaa tttccatatt tcttcggttc tctagagaac 180
 agtcttattg cttttctcca cccactaatg acatcttttt ttaacggaaa gtgggtaaaa 240
 gaaacatgaa caagaactaa acgataacca tagcacacta ttctttgtct acaaaagctg 300
 actctgcaag atcgatggcc cgagctagtg cagcagcctt attctcgcat tcacgttggt 360
 cgtcatctgg gctactgtcg gcaacaatgc ctgcaccagc ctgaagatga gcgacccact 420
 cccgacgcct atctgcgtct ttgtatgagt acatcggggt gtggctcggc gctgttgaga 480
 ataccatggt gcggagagaa agtgcaattt gc 512

<210> 5062
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-060-P1-N6-D6

 <400> 5062

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 tttttgaaaa aaacaaaatt tgtaccccaa gtaaaaaatt cccctttttt aattttcaac 120
 ccaaaaaaaaa aaattttttt ttttgaaact tgccccaat tttttttttt ttaaaaatgg 180
 aagttattac tgggtcccccc aaaaaaaaaa attcaacttt tgtggcttaa aaaaccggaa 240
 aattattgaa aaccccgggg gttttttccg ggttttttaa aaactaaacg gggctatatt 300
 ttgcccgttg gttccgaaaa aaaaaaggga aaaa 334

<210> 5063
 <211> 474

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-060-P1-N6-E11
 <400> 5063

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catccaaaaa actttattat tgaattacaa ctaataatca atctaaaaga gggcaccacc 60
aatgatgtgt tgttggtagg aggctgctgg gtttgtcaaa gcaagttgga caaagggcaa 120
caattgttgt agttgtaaga gggttgcggg gttagccgca aactgcttgt agaaaggcag 180
caactgttgc tgtgtcaaga aggaagcacg acttgctgca gctagctcgc taaatggcag 240
tagtatttgc tgctgcaa at aagcagcggg gttcagtgcg gccaatgggt taaatggaag 300
aagttgttgt tgctgagagt aggcagtagc tagctggcta aatggtaata gttgttgctg 360
caaataagca gcagggttca gtgtagacag ttggttgaat ggaagaaatt gttgttgctg 420
agagtaggga gaaaggtttg ccagagctac ttggttgatc acaggtagca cgag 474
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<210> 5064
 <211> 602
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-060-P1-N6-E12
 <400> 5064

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aataaaattc gcaaacattg gaatgattgg tttatttcgg tgctgacta cgccacacca 60
atacattaca gaggaacatt acaacgcatg cattgccggg agatggatac tctaggtct 120
aggcaaagct gcttgaaatg cagatgtact aactagttgt cgtctccgta ggcgagaaac 180
cggtagcgct cctcgtagcg gccgtcgaag tagaggtcgg cctcgaacca gcgcgggtac 240
ctgaccagat ccccgccac gaagtgcacg tagtcgtcgc cgtggacagc gccggcgggg 300
atgaccttca cctccccgga cacgatgtac acgagctggg cgacctgcca gtcccacggc 360
atccggcacc ggccaccogt gcgcacgac gaccacgtct ccatgaccog cagcgctcc 420
atccgtgcc gcgccacct gcctcgtcc acgcgcacct tgtacacgtc ctccatggga 480
cgccccagca gcgcgccgnc accgnetgct gccgncgccg ttcgtatcct tacacctctt 540
cggctactga tgctaggaag actaggaggc agcctgtgcg ccgcggggag cacgagatgg 600
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aa

602

<210> 5065
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-E2

<400> 5065

aaaaaaaaaa accttttccc aaaaaaaaaa tcccttccaa ttaaaagggg taatgggggg 60
aatggcaaaa acggccaccc aggggggggg gggaaactcg gttactaatg gccgttaaag 120
gggggaacta gcttttagccc taaggggggg tgggaagggg cccattaaa ttattaccac 180
aggaaatagt tccctaaaaa gaaaaaaccc ccggaagttg ttttaaaggg gaagggacct 240
ggttgttgaa attgaaaacc gaaaattgcc ggaaggtggt ggcctaccgg ggccgcaata 300
agggccggaa gctccccctg gggttgttgt tgaagaaagg actgcaaac cacaccgtat 360
gtccccctgga accggggaag ggggtccacc tgcctaattg gggggaaaaa ttgttgctga 420
aaccctgga attggg 436

<210> 5066
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-E3

<400> 5066

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gcattcatct tcttgggtgg cttattattc aaacatatga gctagctaca agctcattcc 120
tcatgcacta tgctcttcgc agttacttgg agggcatcgt tccgccgccg agaatccagg 180
ggcattcggg gaccccgctg atggggggcca ggttgcactc ggcctccgtg acgagggggg 240
cggggaatcc cttttgcacc tcccgggggc agcccggcag gtcctttagg ggggcctcca 300
gctgcgcgtc cgggcccggg gggatcgcgc cctccatgag gatgctcagc gccgtgcacc 360
ggcagta 367

<210> 5067

<211> 74
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-060-P1-N6-E4

 <400> 5067

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 cctcatagcg gcat 74

<210> 5068
 <211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-060-P1-N6-E8

 <400> 5068

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 tgaattacaa ctaataagca atctaaaaga tggcaccgcc aatgatgtgt tgttggtaga 120

 agactgctgg gtttggtgcaa gcaagttgga aaaagggcag caacctgggt gcagttgtaa 180

 gaaggttgcg aggttaacca caaactggct ggtagaacgg aacacttggt gttgtgtcaa 240

 aggaagaaag cggggcttgt tgtagctagc tggccaaatg gtagtagatt tgctgctgga 300

 aaaagcagag ggg 313

<210> 5069
 <211> 544
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-060-P1-N6-E9

 <400> 5069

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 tcattattgt aacacggcac aatgcgagcc cacgtcagaa ctacgccatt ctggacttgc 120

 acgcgcacag tacacatgct gcgtcttgca cctcgcgccg actcgcattt tttttaacca 180

 tggtagctag tactggctgc cgcgggagaa gatgctgcac tcctgtggct ccgacagccg 240

 gcacatcatc ggcaaccccg cggcgtactc ccgggccttc gtaagcctca cgcggccgat 300

ccttgccccg gtggtgccgg gacgacacgg tggatacatc tgcgtttggt atccctctcc 360
 tgccccgctg caggggtagt agtagcccc ctgtcctcct ctctggcgg gggggggggg 420
 tgcttgcgnc gncccatgg ccaccagcct ttctccagcg gcggcatggc ctctctgtat 480
 cccctgacca tgctccggat ggcgggcgag cggcactcgc ggctcacgtc ctggagctgc 540
 tggc 544

<210> 5070
 <211> 531
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-F1

<400> 5070

ccagccaaca cttttgttgg aacttccaaa ttactggggc atatccggga aaaaaacaat 60
 tttttttttt acaacagcca tttggcacag aaaacaacat tgctggatgg ttgctggggc 120
 cctaaactcg aatggcagca tggatggggc ccaaagtgtg tatgaccaat gcttgagagg 180
 ttggatgtgc ggttcaaatt cagcggggaa tagatcaaga gggaccctgg ggatcatctc 240
 gaagctgggg aatgttatca ctgcggcggg ggtcgccgc aatagatttg gggcgcatcc 300
 actgtagaag ccagccacac cttttttatg ataaaccttt ctgatgcagt ctactacacc 360
 cttgtatcta gcatcaaagg gcgctcgctg gttttgcagc cttgaccgaa caacctaatg 420
 aggatatgtc aatgttgatg cagctacttt agccagagac gacgcaacag caacatcacc 480
 aaaactaaat gcttctacag gagtattatc tcgctcagcc agataagctt t 531

<210> 5071
 <211> 379
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-060-P1-N6-F12

<400> 5071

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tttgggggtt ttttttgggt ttttgggttt ttttttnann nnggtttttt ggnggntttt 180
 tgggtttttt ttttttttta aaaaaaaatt ttttaaaaag aggnaaaaaa aaattttttt 240
 ttaaaattaa tgggtaaaag ttttaaaaaa attatgggga taaaaaana ggggggtttt 300
 aatgggtttt taaggtgtgg ggggaggaaa aattttttta aaggaanttt tttttttaa 360
 tttttttaa aaattttaa 379

<210> 5072

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-F5

<400> 5072

aagaatctag aaatgacttt cttattttctg ggaagccaca aacatcagac caaaaaactt 60
 tattattgaa ctataactca taagaaatct aaaagagggc accaccaatg atgggttgtt 120
 ggtagaacgc tgctgggttt gtcaaagcaa ggtggttgaa tggcagcaat tgttgcagtt 180
 gtaagaagg gccagcgtta ggcgcaacgt gctggtagaa cggcaaccaa ctgtggttgt 240
 atcaagaagg tagcagggtt cacaccagct agctggctga atggtagtag ttgttgctgc 300
 tgtaaataag caggagagtt caatgctgcc agttgggtga atggaagaaa ttgctggggg 360
 taggcagcag gtagctggct g 381

<210> 5073

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-F6

<400> 5073

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 cagacagact aaactagatg aagctgactt acccagaaaa gatacctaaa caactggttt 120
 ggaaagagct aggaggtcct cggcatgcta tgggttgaaa tccaactaaa tcccctcatc 180
 aaattctgca tccagaacca gcagcattcg ccagatacta caaccaacta aatcccctca 240
 tcgaattctg catccagaat cagcagcatt cgccagatat ccagtgccat caatcatcat 300

cttattttcac gacaacatgg ttggccccctt tctcctcctg ttggttgccc acgccgtcct 360
tatggaccat ctcccagaaa gaaatccgga ggacagtctc gtatcctggc atcttggcgt 420
agccccgggaa gtagttgatg gtcatgacca gatagcg 457

<210> 5074
<211> 464
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-060-P1-N6-F8
<400> 5074

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gtcgttttat tattattatt acgatgatta ttattactgc atgctagcta gtcgtacta 120
gtcagtagta aactcttggg ttccgcgaggg tgcgacgcc agcatttatt ggggacgagc 180
tagcaggagc tgctggccta gcaagtgagg ttgggccctg ggtcgacgcg gagctgctgg 240
cagtactgct tgtagtagcc gacgcgcgcg ttcatctgng gcggggttgt tcccgttgca 300
ctcgagggcg ccgttgatgg ccctgatggg ggccgcgaag ccctgcggca tcaggcgggtg 360
cacgttggtc atccagaacc agagcgccgt cttgaacgcg atcacggcgt cctgcgccac 420
cctgttgggg tcggcgagcc cggtgagggc gatgtccctc ccgg 464

<210> 5075
<211> 597
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-060-P1-N6-G12
<400> 5075

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cattattgaa gtataactca taagcaatct aaaagagggc accaccaatg atgggttggt 120
ggtagaacgc tggtgggttt gtcaaagcaa gttggttgaa tggcagcaat tggtgcagtt 180
gtaagagggg gccagcgcta ggccgagcgt gcaggtagaa cggcaacaac tggtgttggtg 240
tcaagaaggc aacagggctc acatcagcta gctggctgaa tgggtggtagc tggtgctggt 300
gtaaataagc agcagagttc aatgctgcca gttggttgaa tggaagaaat tgctgggggt 360

aggcagcagc tagctgactg aatggtagtt gttgttgcaa ataagcagca gagttcaatg 420
cagccagttg gttgaatgga agaaactgct gttgctgaga gtaggcagca aggtttccta 480
gcacaagttg ttgtagttgt tgtgccttga tgttttgtgc caacaaatgc accaaaggta 540
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<210> 5076

<211> 556

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-060-P1-N6-G4

<400> 5076

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aactataact cataagaaat ctaaaagagg gcaccaccaa tgatggggtg ttggtagaac 120
gctgctgggt ttgtcaaagc aagttgggtg aatggcagca attggtgcag ttgtaagagg 180
gtgccagcgt taggcgcagc gtgctggtag aacggcaaca actgtgggtg tatcaagaag 240
gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
gcaggagagt tcaatgctgc cagttgggtg aatggaagaa attgctgggg gtaggcagca 360
ggtagctggc tgaatggtag ttgttggtt ttgcaaataa gaagcagagt tcaatgcagc 420
tagttgggtg aatggaagaa actgctgttg ctgagagtag gcagcaagggt ttgctagcac 480
aagttgttgt tagttgttgt gccctgatgt tttgtgcaa taaatgcanc aaagggtaac 540
tgatgtaata ggggct 556

<210> 5077

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-G5

<400> 5077

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gtacaggaaa ctgtccctgt ccctgtcaca tgatcaaagg gtagggacac ttattcatgg 120

gtttatctta ttatctatgg aacgctgaag agtacggctt tgacgcgcca gcacagcaca 180
gcacagccac gtataggcgc cgctcagtgc tgtccgggca gcttctcctt gatcttgccc 240
ataatgcctt tcttctcgcc ggtgccctcg gtgccgggtg cgtaggcgcc gccggtgtgt 300
ccctgctgcc cgtaggcgct gccggtgtgt ccctgctgcc cataggcgcc gccggtcgtc 360
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<210> 5078

<211> 544

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-G7

<400> 5078

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catacttacc cagcaacaac cagttcacat tctaactgac ccactgatca acagtttcca 180
agtaacccaa ttattacca gagaaagggc gaagaagaag atgaaacaat aataataata 240
ataccggact ccctataac ggacactacc ggactcccct ataacggaca ctggactagt 300
aacttattga acgcacctct cgacgaccaa aacggtatga atgaatgaat aggcaggcac 360
ctgctgcgtc cattgcgacg acacgttgta gacacacggc gggtaacttt tgattacaat 420
atacgaacaa atgaaggggt atgaacagat cctaggcata tatggcggat ggcgtgaatt 480
ggcggcccat ggatgtaacc tgcaagtttg actgactgct gccctgggac aacttctgcg 540
tgcc 544

<210> 5079

<211> 586

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-060-P1-N6-G9

<400> 5079

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atcacaggag aagttcgca aaaactatct ctatcaactc catgctagat agcctatagt 120

aacaatccca acacaaaaaa ggaacaattt gttcactcct taacgccaac cttgctcaac 180
 acatggccat gcatcaatca cccctcaatt gctatctgtg aagtctgcgt caatgacatc 240
 cccatcattc tgcgttggtc cgggtaccagg cgtagggtccg gcctcagcac caggagtagg 300
 cccagcagca ctggcaccag gctgggtata cattgcctgg ccaatctgca tcacctcctg 360
 gttcagagca gccatggcat ctttcatact ctgtgttgat ccaccagaaa tggcgtcttt 420
 gagctcctgg agcttcacat ccaccttctc tttcacagga gcgnggactt tgctcgccaag 480
 ctccttcagt tgcttctcag tctggtagac cactgagtcc ggctgggtttt tgggtgtcgat 540
 tgcatctctc ttctctttgt cctccttggc aaacttatcg gcttct 586

<210> 5080
 <211> 216
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-060-P1-N6-H1

<400> 5080
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 acatgtgatg gacatagaca tccaaccgag gcgatcatct atgggtttga catgcatcca 120
 cgtacgggtt acattntctg tggtcgaaga gagctgcgcc atgcaccac ggtgggtgtg 180
 taggggaaaa gaaaaagtna ttctaatact catgac 216

<210> 5081
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-060-P1-N6-H10

<400> 5081
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 gcgcgacggc tagcttatat tagagcgcgt catcagccta gcagtttatt tttataaat 120
 gcatacatgc agacatggat ggcatcatct ctgggtgcttg tgcttgtgct gactgactga 180
 ctggctggct gggctctatg actgatgagg tcgacggatg tgatcatatat atatctgatc 240

tcatcatggc ctgaagaaag ccgggtgggg gcgctccgtg ccctggaagg aggtgttctt 300
gaggtgctcc ggagcttcct cgaacgagtg ggcctcgcc agcgacagga tcttcttgct 360
ggcggcgatg aagtaggcca tcccggccac cgtggagacg atgagcgcc 409

<210> 5082

<211> 481

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-H7

<400> 5082

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aatgatgtgt tggtggtagg aggccgctcg gtctgtcaaa gcaagttgga caaagggcaa 120
caattgttgt agttgtaaga gggttgcggg gttagccgca aactgctggg agaaaggcag 180
caactgttgc tgtgtcaaga aggaagcacg gtttgtgca gctagctggc taaatggtag 240
tagtatttgc tgctgcaaat aagcagcggg gttcagtgcg gccaatggg taaatggaag 300
aagttgttgt tgctgagagt aggcagtagc tagctggctg aatggtaata gttgttgctg 360
caaataagca gcagggttca gtgtagacag ttggttgaat ggaagaaatt gttgttgctg 420
agagtaggga gaaaggtttg ccagagctac ttggttgatc acaggtagca cgagttgctg 480
c 481

<210> 5083

<211> 606

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-060-P1-N6-H9

<400> 5083

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gcagtagcag tcaaaagcag tacacataca aaacataaat acacctcaca gcattagtta 120
aataagttac tcttccttct gccttattat tatttcatac atatatatat gcactagggg 180
ttaattccag cactggaaga catattactt gctttttcag gtggaaagga ttcgagcttt 240
ccacagagca tcatcagaag attcagcgaa gctatccact tgagtccaca acttgacacc 300

attgagggca ttcagatacg ctggtgagga acttcggcgc ctctctact tctttacacc 360
 attttagggg gnggggatg aatgatcttg gctggtacaa gtacatatat aacacattcg 420
 acacaaggaa agaaaaccac cttcagtcag tagcctccac tccaccaggc actttatagt 480
 cacgtaggtg caagtgtgtt gctgcgcagg ccagcgtgc cgccaccggc ttgcaaggaa 540
 agagttggac ctcggtgtgt gctgcgctgg cttacgaggc cggagtcaag gaacactact 600
 atgact 606

<210> 5084

<211> 361

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-A4

<400> 5084

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 gncagcagca atactactac catttagcca gctagctgca gcaaaccgtg cttccttctt 120
 gacacagcaa cagttgctgc ctttctacca gcagtttgcg gctaaccccg caaccctctt 180
 acaactacaa caattgttgc ctttgtcca acttgctttg acagaccag cggcctccta 240
 ocaacaacac atcattggtg gtgcctctt ttagattgct tattagttgt aattcaataa 300
 taaagttttt tggatgatgt atgtggccaa ccagaaataa gaagttacat ttccagattc 360
 t 361

<210> 5085

<211> 100

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-A9

<400> 5085

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<223> unsure at all n locations
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<400> 5086

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 <213> Zea mays

<223> unsure at all n locations
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<400> 5087

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gtttttttta aaaaaataca ggaatgtctt ctctaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aggaaaaaaa aaaaaaaaaa aaaaaaaat taaaaaatga 240
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 <211> 541

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-059-P1-K6-D11

<400> 5088

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<211> 405
<212> DNA
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<223> Clone ID: LIB3061-059-P1-K6-D12

<400> 5089

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<210> 5090
<211> 606

<212> DNA
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<223> unsure at all n locations
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<210> 5092

<211> 621

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-K6-E7

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-K6-G12

<400> 5093

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<223> unsure at all n locations
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<213> Zea mays
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<212> DNA
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514

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<211> 399

<212> DNA

<213> Zea mays

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<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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 <400> 5101

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 <400> 5102

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<223> unsure at all n locations
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<400> 5104

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<212> DNA
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<223> unsure at all n locations
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<400> 5105

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<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 5106

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<211> 546

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 5107

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<223> Clone ID: LIB3061-078-Q1-N6-D6

<400> 5108

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ggggggggggg ggggtggggg gggggggggg gggggggggg tggggggggg gggggggggg 180
ggggggggggg ggggggggtg ggtggggggg gggggggggg gggggggggg gggggggggg 240
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gggcgggg 308

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<210> 5109
<211> 378
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-078-Q1-N6-E3

<400> 5109

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 gggggggggg gggggggggg gggggggggg ggggggnngg gggggggggg gggggggggg 180
 ggggggggtg gggggggggg gggggggggn ggggggggtg gggggggggg gggggtnggg 240
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 gtgggggggg gggggggggg ggggnnggtg gggggggggg ggggtggggg gggggggggg 360
 gggggggggg gggggggg 378

<210> 5110
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-078-Q1-N6-E4
 <400> 5110

gggggggggg gggggggggn ngggggnggg gggggggggg gggggggggg gggggggggg 60
 gngggggggg gggggggggg gggggggggg gggggngggg gggnttttg gggggggggg 120
 gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 180
 gggggggggg gggggggggg gggggggggg gggnttggtg ggtggggggg gngggggggg 240
 gggggggggg gggggggggg gggggggngg tngggggggg gggggggggg gggggggggg 300
 ggggggtggg gggggnnggg gggggggggg ggggtggggg gggggggggg gggggggggg 360
 gggggggggg 369

<210> 5111
 <211> 494
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-078-Q1-N6-G12
 <400> 5111

gggggggggg ggggggggt tttttccgg gggggggggg tttggggggg gnnnnnnnnn 60
 nnnntnnnn nnnnggtggg gggggggggg gngggngccc ggcncgggg tgggggggt 120

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gggggggggg gggggggggg gggggggggg gtgggggggg gggggggggg gggggggggg 180
gggggggggg ggggggggggt gggngggggg gggggggggg gggggggggg ggggtggggg 240
gggggggggg gggggggggg ggttgggggg ggcggggggg tggggggggg gggggggggg 300
gggtgggggg gggggggggg gggggggggg gggggggggg ggggtggggg ggggtggntng 360
tggggggggg ggggggtggg gggggggggg gggggggggg gggggggggg ggggggntgt 420
gggggggggt gttcggggnn gggggggggg ggggggggtn gtgggggtgg gggggggggg 480
gggggggggg gggg

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494

<210> 5112

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-N6-G4

<400> 5112

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gggggggggtg gggggggggg ggggggggtg gngggggggg ggggggggtg tgtggggggg 60
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gggggggggg gggggggggg gggggggggg gggggggggg ggggtggggg ggggtgggg 180
gggggggggg ggggtggggg gggggggggg gggggtgggg gggggggggg gggggggggg 240
gggggggggg ggggggggggt ggggggggggt gggggggggg gggggggggg ggggggttngg 300
gggggggggtg gggggggggg gggggggggg gggggggggg ggggtngggg ggtgtggggg 360
gggggggggg gggggggggg tggggggggg gggggggggg ggg

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403

<210> 5113

<211> 303

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-079-Q1-N6-A10

<400> 5113

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aaaaaaaaat attttttgtt taaanggggg gggnnnnnnnt ttttttttgg ntgggggggg 60
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gggnnnngnat ttttttttggg gggggggggg ggggtggggn gggggnnggg gggggggggg 180
 ggggggggttg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 240
 gggggggggg gggggggggg gggggggggt gggggggggg gatgggntgg tggggggggg 300
 ggg 303

<210> 5114

<211> 487

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-079-Q1-N6-A2

<400> 5114

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 agataaaaca gggtagctaa gacatctcct tgaatcttgc catggccttc ttctggatga 180
 tggtttttga gctgtccccg gcttgggctt caagggatgg atcaggcttc cgctgctgac 240
 ttcccagtcc agccctggcg tcgacggatt ttgcctggac tggttccttg ataccgctgg 300
 catcctttcc gagacccagt cctcctgcc accccatgtt gcgtagaatg cggttgccca 360
 cattgctttc atcgattgct ctatcagcgg taataacttc atagttttcg ctgttgccaa 420
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 tgaacct 487

<210> 5115

<211> 515

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-079-Q1-N6-A3

<400> 5115

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 ttgctgccac gacaaggcag ggttcatcaa agagaactgg ttgtatggca gcaattgttg 180
 ctgctgtagg aaggcagcga ccaatgggtt agccaccgct agtggattaa gtaactgttg 240

tcgctgttgt aggtacgcag cagagttcga cacagtcagt tggttgaatg gaagtagttg 300
 ttgcaagtag gcagcagggg ttgccacagc tagctgagta agagctggta caatttggtg 360
 cagcaactgt tgttgcaaca actgttggtg caggtatgta ggtgcattgc ccatagcgag 420
 cgggctagat gaaagaagtt gttgctgttg taggtaggcg atagggttca ccatggctag 480
 ttgactgagc gctggcagaa actgttgcaa ctggt 515

<210> 5116

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-079-Q1-N6-A9

<400> 5116

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 cgctggtggg ttagacaaaag ctagttgggt gaattggatg cattgttgca gttgtaagaa 180
 ggcaaccagt taagggctca atagtgggtg tagaaactga acaactgtgg tgtggttacg 240
 caggttagag ggtctcaacc agcttggttg ctggaaggaa ctggtggaag ctggcagcag 300
 gtttcgccac agttcgatgc ttcagagctg gtacattgtg ataaatcctt ggggggttgca 360
 ggtttttaag tgcgttaacg gcatcgggag ggctggcaca aaagcagcag gggctaattgc 420
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<210> 5117

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-079-Q1-N6-B1

<400> 5117

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 gggggggggg gggggggggg gggggggggg gggggggggg ggggnggggg gngggggggtg 180

gggggggggg ggtggggggg gggggggggg gggggggggg ggggtggggg gggggggggg 240
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 gggggggggg gggggggggg gggggggggg gggggggggg gggnggtggg gggggggggg 360
 gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg nggggggggg 420
 gggggggggg tgnggggggg gggggggggg 449

<210> 5118
 <211> 482
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-079-Q1-N6-B10

<400> 5118

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 gtacatacag gctgccgagg aatcaggccc tcacggatag atgtcaatat ggccaaacgg 180
 cgctagctag cctcaacaag ttctgaagac cactatggca cacttaaaaa caagcttcag 240
 cttcaggaaa ctggtggtga cagatttaat acactatcta ggttacaatg actgatactg 300
 cgggtacaggc agttccgagg atgttgcaat tttgaggcac cagggtacggg tacttggcag 360
 ctggagaact catgcctttt ccacttgctc ttccttttcc tggagaaggt tctccctgtt 420
 gtcgtgggcc cagaagccac gcacatttat aagcatgctg gcgacagtcc caccttgctt 480
 gc 482

<210> 5119
 <211> 525
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-079-Q1-N6-B2

<400> 5119

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 ggggggtttt ttggnntngn ttttngggg gntggggggg gggggggggn gnnngnnttg 180

ggggggnggg ggggggnggg gggggggggg gngggggggg gggggggggg gggggggggg 240
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 gggggggggg gggggggggg gggggggggg gggggggggg gngggggggg gggggggggg 360
 tggggggggg gggggggggg gggggggggg tgtggggggg gggggggggg gggggggggg 420
 tggggggggg gggggngggg gggggggggg gtgggggggt gggggggggg gggggggggg 480
 gggggggggg ggggggggggt ggggggttgg gggggggggg ggggg 525

<210> 5120
 <211> 555
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-079-Q1-N6-B4

<400> 5120

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 gtatgagggc accattgtcg agtacatctc atatgtaatc taaaagaggc acctccaacg 120
 atgggttgct gcaaggcagg gttcatcaaa gagaactggg tgtatggcag caattgttgt 180
 tgctgctgca ggaaggtagc gaccaatggg ttagccactg ccaatggatt aagtaactgt 240
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 tgttgtaagt aggcagcagg gtttgccaca gctagctgag tcagagctgg tacaatttgt 360
 tgcagcaact gttgtttag gtacgtagggt gcattgccca ccgcgagcgg gctagatgaa 420
 agtagttgta ggtagacggc agggttcacc atggctagtt gactgagcac tggcataaac 480
 tgggtgcagct gttggtgttg ctgggtatgca gctacgttcg ccagagcaag tgggttgga 540
 tgcaagcagc tgctg 555

<210> 5121
 <211> 546
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-079-Q1-N6-B5

<400> 5121

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tcacatgttt tgatcggcac gcctaacagg tgcacattct gtatggctat agggccaac 120
ctaacaagt acgctttttg gagactatac catcctcatc atgaatcggg tatcacactg 180
taaggatgat ttaaagcttg ttactcccaa tcttaggaaa agtaattatc gaacaccctt 240
ggagaccaat atcacattag aatctggaaa tgtaacttct tatttctggg tggccacata 300
catcatccaa aaaactttat tattgaatta caactaataa tcaatctaaa agagggcacc 360
accaatgatg tgttggttgg aggaggctgc tgggtttgtc aaagcaagtt ggacaaaggg 420
caacaattgt tgtagttgta agagggttgc ggggttagcc gcaaactgct tgtagaaagg 480
cagcaactgt tngctgtgtc aagaaggaag cagacttgc tgcagctagc tgcgtaaagt 540
gcagta 546

<210> 5122
<211> 522
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-079-Q1-N6-B8

<400> 5122

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ttattgaatt acaactaata agcaatctaa aagaggcacc accaatgatg tgttggttgg 120
aggaggccgc tgggtctgtc aaagcaagtt ggacaaaggg caacaattgt tgtagttgta 180
agagggttgc ggggttagcc gcaaactgct ggtagaaagg cagcaactgt tgctgtgtca 240
agaaggaagc acggtttgct gcagctagct ggctaaatgg tagtagtatt tgctgctgca 300
aataagcagc ggggttcagt gcggccaatt ggttaaattg aagaagtgtg tgttgctgag 360
agtaggcagt agctagctgg ctaaattgta atagttgttg ctgcaaataa gcagcagggt 420
tcagtgtaga cagttggttg aatggaagaa attgttggtg ctgagagtag ggagaaagg 480
ttgccagagc tacttggttg atcagaggta gcacgagttg ct 522

<210> 5123
<211> 476
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-079-Q1-N6-B9

<400> 5123

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acccaacgta acccttccac attctccttt tgtttcgccc ttacccttgt tttacatgtg 120
ttttacaaca gcacggggca acaacaaaat tttttgaccg cttttggagc ccagttacaa 180
taaggggtgt gccaacagat taattttgtc gacatcaaac acaccggggc gaaggcaaca 240
cctaccaaca ggccaacgac cttttttcgc acgttcaacc ccaatgagcc ctttaaaacc 300
ccgccaaaac ttgggatcaa agccccccac ctttttacca ttcagtagtc aaaccatta 360
ttttccatct ttgcaaggat tgcacttatt ggggcgcttg gcgcttcaag cccttttaaa 420
acggcagcgg caagggctcc accccagcta tttttggcac catacaccca atttgc 476

<210> 5124

<211> 513

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-079-Q1-N6-C1

<400> 5124

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gtttttttttt tttggggggg ggggttttgg ggtggggggg ggggggtttt tttttngggg 120
ggggggggggg gngggggggg tggggggggg ttgggggggg gnngtttttt ttttgggggg 180
gggggtggggg ggggggggtt tgggggggtg ggggttgggg gggaaagggg gtggggggag 240
agggngaaaaa aaaagggggg ggaggtaaag gggaaaaggg ggggggggtt gggggggggg 300
ttnnnaatag gggggggggg gggngggggg ggggtgtggg ggggggggaan gggggggggg 360
gggggggtttt tgggtggggg tnaggggggg gggggggggg ggttggnttt gggggggggg 420
ggggggggggt tttgggtggg tggggggggg gggggaggag gggggggggg ggtttngggg 480
gggggggtggg gaggggggaa aaaaagggga aaa 513

<210> 5125

<211> 520

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-079-Q1-N6-C10

<400> 5125

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ttcaaaccga gaacacacaa aaaaaaacat tcccacaaac acttggcttt gcgacacacc 120
tcaaacaatg tgttcagcca gggccaggat cttgaggtgc tttttcttcc tcagctcgtg 180
ggggacgggg ccaaagaccc gggtgccgat cagctcgccc tttttgttca cgaggaccac 240
cgcgttgctg tcgaactgga cctcgctgcc atcgctgcgt cttttcttca tggcggcacg 300
gacgaccacg ccgtaaaacta cgtttccttt cttgaccttg ccacgaggct gggcctcctt 360
tacggatccg atgatcatgt ccccgagcct tgctcctttc tccccctca gggactggat 420
gcacatcacc cgcttggccc cggagttatc gaccaccttc aggttagtcc tcactcggat 480
gaatgttctg atttgctgac tgatagcatc gcaatgagcc 520

<210> 5126

<211> 349

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-079-Q1-N6-C5

<400> 5126

aaaaaaaaaa aaattttttt tttttttttt gggggccccc ccattttttt ttaaaaaaaaa 60
tttttttttt tttaaattttt ttttattaaa aaatttttaa aaaaagaggc aacataatat 120
tttttttttt tttttaaaaa aaaataattt tttttttttt aaaaaaaaaa attttttttt 180
aatataaaaa aatttttttt ttttttttat aaaaaaaaaa aacaaaaata atttntttcc 240
ccccattttt ttatataaaaa aaaaaaatnt tttttttttt aataaatgat ttataaaaga 300
tatgtgggcg gtaataaaat aaaaaaaata attttttttt cttttatat 349

<210> 5127

<211> 526

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-079-Q1-N6-C6

<400> 5127

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tgatggggttg ttggtagaac gctgctgggt ttgtcaaagc aagttggttg aatggcagca 120
attgttgagcag ttgtaagagg gtgccagcgt taggcgcagc gtgctggtag aacggcaaca 180
actgtgggttg tatcaagaag gtagcagggc tcacaccagc tagctggctg aatggtagta 240
gttggtgctg ctgtaaataa gcaggagagt tcaatgctgc cagttggttg aatggaagaa 300
attgctgggg gtaggcagca ggtagctggc tgaatggtag ttgtgttgtg tgcaaataag 360
aagcagagtt caatgcagct agttgggtga atggaagaaa ctgctgttgc tgagagtagg 420
cagcaaggtt tgctagcaca agttgttgta gttgtgtgct cctgatgttt tgtgccata 480
aatgcaccaa aagtaactga tgtaataggg ggtgatgatt tgttgc 526

<210> 5128

<211> 484

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-079-Q1-N6-C7

<400> 5128

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gccccattat cgagtacatc tcatatgtaa tctaaaaaat ggcccctcca acgatggggt 120
gctgcctcga caagacaggg ttcatcaaag agaactggtt gtttggcagc aattgttgct 180
gctgtaggaa ggcggcgacc aatggggttag ccactaccaa tggattaagt aactgttgct 240
gctgtttagt gtacccaaca aagtctgaca gagtcagttg gttgaatgga aacagctggt 300
gcaagtaggc aacaggggtt gccacagcta gttgagtcaa agctgggtaca atctgttgca 360
acaattgttg ttgcaggtat gtaggtgcat tgcccacagc gagcgggcta aatgaaaaca 420
gttggtgttg ttgtacctag gcggcagggc tcaccatggc tagttgactg agcgttggca 480
gaaa 484

<210> 5129

<211> 558

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-079-Q1-N6-C8

<400> 5129

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atcactcatc gctatgctcc tcaacaaaaa tcagctggta gctgccgcag ttagcttgta 120
cttaaggtat gctctgataa agggatctag ctctccatcc attacgccag tgatgtccga 180
cgtctcacac cctgtcctga catccttgac gagcttgtag gggtggaaga cgtagttgcg 240
tatctgctgc cccactctg ccttcacaat gtctccacgg atctgcttga tttctgatgc 300
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catgcgaaca gccgtttcca ccttgttcac gttctggcct cctttacctc cagctcttgt 480
gaagcttata tccagtcct cttcaggtat gtccacagcc atggattcct ctggtagaag 540
aggcataacc tcaacacc 558

<210> 5130

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-079-Q1-N6-C9

<400> 5130

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acttggaacc aggccagggc tgcccaaaaa cgctcaaaca agggaaaaaa aacgcgaagg 120
gaccaaagtt cttggaaacc aagtccacat tactccaata cagactaac aatgcgaatt 180
gcgggggaaac agatcgaaat gcaggcgatg gttttccggc ctgggcttct tcttcttctt 240
ctttccccgt actaattgaa ggacagggga acctggcttg ccaggctacg ggaccttagg 300
gcgtaaaaca tcttgatgta gcggcggggtc tcgcgcctct tcaagttggc caggtacttt 360
cagaaccgt acacgccggt cagggtcac aac 393

<210> 5131

<211> 540

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-079-Q1-N6-D11

<400> 5131

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caaacggcac tttgtttctt cgttcgagcg ggcgacgacg gttttttttt atgtttggtg 120
agatgaggtg tcagcataga tgtccaccaa ggtatcaaac cacgatgaga agcgaacaga 180
agcagagcca ggagtgaaga caggcgatgt ttcagccaac ggcacacttc ggattattag 240
ctcccttctt ccattccttt acaaataact caacgatgct ctatgtggca aacaaaggga 300
ttaaggttct acaaggtctg tatcctctgg atctgcgact cagcttgcg ctcgctagct 360
gaactatcag cagtgtgctc gatgacgaag ctctcgatct tatgaagtga ctcaattgca 420
atatcagtag gtgtcagctt agagacatca tcatgacctt gtttacatgc aatctcttcc 480
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<210> 5132

<211> 519

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-079-Q1-N6-D3

<400> 5132

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cgaacatata agaccatgat aggtcatatg acatatataa gacctttatc tagcatatct 120
gtagtaccgg tcctgctgct gaaaccagac taaagttggc gcaggtagac accgatcgca 180
gcgacgagcc tggtcgctgc gcgtccatag aatcccacga tgctgctgcc gatgggcgcg 240
gtgatgcaga aacgtgtgcc gctctcgatg ccccatggcc cccaagctct ggcggtgctg 300
gtgacaatcc tgaacgaggt aagggtagtc gcaccttcca atgcgccgta cgttccagaa 360
acttccttga cgtattcagc gtcgccaaga tcgagcttcc ggacgttgcc gccaaagtcca 420
cccatcgcc cagcgggtgcg cgtctgacca cctgtgtcgg tactgtaggt gaactcgatg 480
gagtccacgg caacgccggc gcggacggtc aggctctgc 519

<210> 5133

<211> 241

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-079-Q1-N6-D5

<400> 5133

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gggggagaca aaattttttt tttgggggga accccccttt tgggttttgg gggggggggg 120

ggggtttttt gggggggggg gggggggggg gccaccccc ccaccttggg gggggggggg 180

gtntggggct gtctctaaaa aaaaaccccc ccccccttt ggtggggggg gtgggggggg 240

g 241

<210> 5134

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-079-Q1-N6-E1

<400> 5134

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gtataactna taagnaant aaagaggggt actcttcaat gatgggttgn nggnagaacg 120

ctgttgggtt tgtcaaagca agttgggtga atggcagcaa ttgttgcagt tgtaagaggg 180

tgccagcggt aggcgcagcg tgcaggtaga acggcaacaa ctgttggtgt gtcaagaagg 240

caacagggct cacatcagct agctggctga atggtggtag ctgttgctgt tgtnaataag 300

cagnngagtt caatgctgcc agttgggtga atggaagaaa ttgctggggg gtgggagcag 360

cttgctgcct gaatgggagt tggt 384

<210> 5135

<211> 354

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-079-Q1-N6-E2

<400> 5135

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ggcctttgca aatcctcttg tccggccaag gtttctggct tccaatacta cagaaagtct 120
tccgggtata agtaaaactga aacggggaac acagcgacag agagagagag agaaaactagg 180
gaaaacgcta acagctagcc agctgctctc cagcagcgac gagatggagc cgcaacgctc 240
tagggcgcca tgctgcca gttccacagc ctgccttggg tggtcaccag ttcccttgta 300
cagcgattcg gtcgagctct tggggacgtc gaccgtcgct cgcgggtagc tatg 354

<210> 5136

<211> 517

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-079-Q1-N6-E4

<400> 5136

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agaagatccc gaggagcggg gacgacgacg acgtcctgct gtccttgcac gcatgtagtc 180
ctctacgcac gacggcggtc gccgcagctc ggcgcgggct ctcctctctc ctcggcggcc 240
gggcccggga cgaggtgctc gtagacgacg ccggagaggc cggcgccgac catggggcccc 300
accagtaga cccattgggtg tctccagcga cgggagccca cgacggcggg cccgaacgcg 360
cgcgccggat tcatcacggc gccctccagc gcgcgcgagg ccagcacgtt agcccccgcc 420
aggagcccca cggcgagcgg cgcgcncagc gctccggcgc cggcgcgagc cctccgggct 480
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<210> 5137

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-079-Q1-N6-E5

<400> 5137

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ttattgaatt acaactaata agcaatctaa aagaggctct tctttttttt tttgnnggna 120

ggaggccgct cggctctgtca aagcaagttg gacaaagggc aacaattggt gtagttgtaa 180
gagggttgcg gggttagccg caaactgctg gtagaaagggc agcaactggt gctgtgtcaa 240
gaaggaagca cggtttgctg cagctagctg gctaaatggg agtagtattt gctgctgcaa 300
ataagcagcg gggttcagtg cggccaattg gttaaattgga agaagttggt gttgctgaga 360
gtaggcagtn gctagctggc tgaaaggtaa tagttgttgc tgcaaa 406

<210> 5138

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-079-Q1-N6-E6

<400> 5138

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tgtatggcag caattgttgt tgctgctgca ggaaggtagc caccaatggg ttagccactg 180
ccaatggatt aagtaactgt tgctgctggt gtaggtacgc agcagagttt gacacagcca 240
ggtggttgaa tggaagcaac tggtgtaagt aggcagcagg gtttgccaca gctagctgag 300
tcagagctgg tacaatttgg tgcagcaact ggtgttgng gtccgtaggg gcattgcccc 360
ccgcgagcgg gctagatgaa 380

<210> 5139

<211> 565

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-079-Q1-N6-E9

<400> 5139

acttagatct ggaaatgtaa cttcttattt ctggttgccc acataccatc atccaaaaaa 60
ctttattatt gaattacaac taataatcaa tctaaaagag gcaccaccaa tgatgtgttg 120
ttggtaggag gctgctgggt ttgtcaaagc aagttggaca aagggaaca attgtttag 180
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tgtcaagaag gaagcacgac ttgctgcagc tagctcgcta aatggcagta gtatttgctg 300
ctgcaaataa gcagcggggt tcagtgcggc caattgggta aatggaagaa gttgttggtg 360
ctgagagtag gcagtagcta gctggctaaa tggtaaatagt tgttgctgca aataagcagc 420
agggttcagt gtagacagtt ggttgaatgg aagaaattgt tgttgctgag agtagggaga 480
aaggtttgcc agagctactt ggttgatcac aggtagcacg agttgctgca agctgtgtgc 540
cctgatgggt tgtaccaatg actgc 565

<210> 5140

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-079-Q1-N6-F11

<400> 5140

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gggaatctat agaatggccc ggcctacaac agacaaaaat cagcttttta tgccccagaa 180
tagggggggac aatcgccaga cgaggggtaa agaacatgta agaacagata tcttagccat 240
cagggtctatt tggaccatgc gactggctcg atttccgatt ggggactccg ggacagggtc 300
agcctttttg caagggtagg tttgcgggtcc atgactgggtg gatcttcgtc gagaagcttg 360
gaaaggggct tcatttctct tgggtcccagg tcagggaaga aatgatcgag ca 412

<210> 5141

<211> 522

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-079-Q1-N6-G1

<400> 5141

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gggaaaataa tttttttttg ggggggggnnn ngggnaggat tntttngggg gagggggggg 120
ggggtttttg ggggggggna gggttttnntt ttgggggggt tggtgggggt tgggggtttt 180

nggggggtttg ggggggttgg gggggaattg ggntnggggtg agaattgggg ggnttttttg 240
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 tgggggtgggg ggggtggggg ggttgggggg ggggggtggg gggggggggg tgggttgggg 360
 ggggggtntt tggggggggg gggggggggg ggggggttgg ggggtggggg gggggggggg 420
 ggggtggggg tgggttgggg gggngggggg ggtgggttgt ggggtggggg ggggtggggg 480
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<210> 5142

<211> 356

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-079-Q1-N6-G8

<400> 5142

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 aaagttggga ccacctatga aggggtgggtg gtagaacact gggggggggg gcaaagcaag 120
 gtggttgaat ggcagcaatt gttgcagttg taagaggggtg ccagcgttag ggcgaacgtg 180
 ctggtggaac gggaacaact ggggttgggt caagaaggga gcagggctca caccagctag 240
 ctggctgaat ggtagtagtt ggtgctgctg gaaataagca ggagaggtca aagctgctag 300
 gggggtgaat ggaagaaatt gctgggggtg ggcagcaggt ngctggctgg atggga 356

<210> 5143

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-079-Q1-N6-H11

<400> 5143

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 ggggggnggg ggnngggggg gggggggggg ggcggggggg ggggnngggg gngcgggggg 180
 ggggtggggg gggggggggg gggggggggg gggggggggg gtgggggggg gggngggggg 240

ggggggtggg gggggggggg ttgcggggcg gggggggggg gtgggggggg tgggtggggg 300
 gggggggggg cggtgggtgg ngggggggng tggggggggg ggggggtggt gggggggggg 360
 ntgggggggg gggngggggg gggggggggg ggtggggggg gggggngggg gg 412

<210> 5144

<211> 327

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-079-Q1-N6-H7

<400> 5144

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 agaggggann atctttgatg ggttggtggn agaaaaatgn tgggtttggt aaaggaaggg 120
 ggttgaatgg gagnaattgt tggagttgta agagggtggn agtgttaggg gnaangtggt 180
 ggtagaaagg gaanaantgt ggttggtgtna agaaggtagn agggntnaaa aaagntagnt 240
 ggntgaatgg tagtagttgt tggtggtgta aataagnngg agagttnaat ggtgntagtt 300
 ggttggtatg aagaaattgn tgggggt 327

<210> 5145

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-080-Q1-N6-A1

<400> 5145

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 gggggggggg gggggggggg gggggggggg ggggtggggg gggggggggg gggggggggg 180
 gggggggggg gggggggggg ggggtgggtg gggggggggg tggggggggg gggggggggg 240
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 ggggggggng ggggtggggg gggggggggg gggggggggg gggggggggg ggggtggggg 360
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<210> 5146
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-080-Q1-N6-A2

 <400> 5146

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ggggggggggg ggggtggggg ngggggggggg ggggggaggg tngggggggg gggntggggg 180
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ggggggggggg nngggggggg gggggggggg ggggttgnagg gggggggggg gggggggggg 300
ggggggggggg gggggggggg gggggggggg ggggggnagg gggggggggg gngggggggg 360
ggggggggggg gggggggggg gggggggggg gg                                     392
  
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<210> 5147
 <211> 279
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-080-Q1-N6-A3

 <400> 5147

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ggggggggggg gggggggggg gggggggggg gggggggggg ggggggggga gggggggggg 120
gggtggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 180
gggtggggggg gggggggggg tggggggggg gggggggggg gggggggggg gggggggggg 240
ggggggggggg gggggggggg gggggggggg gggggggggg                                     279
  
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<210> 5148
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-080-Q1-N6-A5

<400> 5148

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 gaaggcaaaa aaatgaggaa aaaaaattga ttggggaagt ataagttatt tttatttaaa 120
 tgaggggann annaaagatg ggttgggggg gggggggggg tgggtttggn aaagnaaggt 180
 ggttgaatgg gagaaattgt tggagttgta agaggggggn agggttaggg gnaaggggtt 240
 ggtagaaagg gaaaaattgg ggttgggtta agaagggggn aggggttaaa aaagttaggt 300
 ggntgaatgg gaggaggtgt tgggtggtgn aataagnagg agagtgtaaa ggtgtnaggg 360
 gggggaatgg aagaaatggg ggggggaggg agnagatagg tgggtgaaag ggaggtggtg 420
 gtggggaaaa taagaag 437

<210> 5149
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-080-Q1-N6-A8

<400> 5149

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 ggggnggggg gggggggggg nggggggggg nngggggggg gggggggggg nnnggngggg 360
 gggggggggg gggggggngg gggggggggg gggggggggg 399

<210> 5150
 <211> 532
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-080-Q1-N6-A9

 <400> 5150

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gggggggggg gggaaaaaaa aaaaaatttt tttgggntnn gnnttttttt tttttttttt 60
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tggttaaaaa aannnttttt tttttggggg attggggggg ggttttagggg ggggaanntt 180
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gggggggggt ttgggggttt tggggggggg ggntaagggg ggttttgggg ggggnaaaaa 420
aagggggggg tgtggggggg gggggggaat tggggggnaa ggggggaaaa aaaggggttg 480
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```

```

<210>      5151
<211>      412
<212>      DNA
<213>      Zea mays

<223>      unsure at all n locations
<223>      Clone ID: LIB3061-080-Q1-N6-B1

<400>      5151

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gggggggggg gggggggggg gggggggggg gggggggggg gggggtgggg gggggggggg 180
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gggggggggg gggggggggg gggggggggg gggggggggg ggnggggggg gggggggggg 360
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```

```

<210>      5152
<211>      280
<212>      DNA
<213>      Zea mays

<223>      unsure at all n locations
<223>      Clone ID: LIB3061-080-Q1-N6-B12

<400>      5152

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 naanncnnnn cnnncncacc aactgggggc cgccnggggc aaaagggggg ggggtncnnc 180
 tccacaggtc ccagaaaaaa accaaccccc ggtnacgtg ctcccagtcn tccgccttcc 240
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<210> 5153

<211> 315

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-080-Q1-N6-B4

<400> 5153

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 ggagcagggg acgggtgccg ggcggggaac ctagggaggc ggccaccgta aggaaagggg 240
 caaggggcgg ggggggggcc ggggggtatg gggcggcagg gggggtgggg ggataccggg 300
 gaagnagggg aacag 315

<210> 5154

<211> 355

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-080-Q1-N6-B5

<400> 5154

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 actgtggggt ttgtaaaaaa aagggggggg aaggggaaaa atttttgcca tttaaaaggg 180
 gggccccggt tggggttttc ggggggggga aacagaaaaa attgtttttg gttaaaaaag 240
 gggagggggg caaaaaaaa tnactgggta aaaggagaa gttgtggctg gtgaaaaaa 300

accgaaaatt caaaaggctt ttgtggggga aaagaaaaaa atttgggggg ggggg 355

<210> 5155

<211> 473

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-B6

<400> 5155

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tttgaactta ctcataagaa actaaaagag gcaccaccaa tgatgggttg ttggtagaac 120

gctgggtgggt ttgtcaaaac aagttgggtg aatggcagca attgttgagc ttgtaagagg 180

gtgccagcgt taggcgcagc gtgctggtag aacggcaaca actgtgggtg tatcaagaag 240

gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300

gcaggagagt tcaatgctgc cagttgggtg aatggaagaa attgctgggg gtaggcagca 360

ggtagctggc tgaatggtag ttgttgttgt tgcaaataag aagcagagtt caatgcagct 420

agttgggtga atggaagaaa ctgctgttgc tgaaagtagg cagcaagggt tgc 473

<210> 5156

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-B7

<400> 5156

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ccctttttcca gcccctctca tggggcatcc aaaaaaggcc cccccaacca aggggtgctg 120

ccccaccaa acagggttta tcaaaaaaaaa ccgggtgttt cgccaccatt ttttctctt 180

ctggaaggcc ccccccatg ggtttgcccc cgcctggggg ttaaagaacc cttggccctg 240

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<210> 5157

<211> 520

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-B8

<400> 5157

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tatcgagtac atctcatatg taatctaaaa gatggcacct ccaacgatgg gttgctgcct 120
cgacaagaca ggattcatca aagagaaccg gttgtatggc agcaattggt gctgctgtag 180
gaaggcagcg accaatgggt tagccactgc caatggatta agtaactggt gtcgctgttg 240
taggtacgca acagagttcg acatagtttag ttggttgaat ggaagcagct gttgcaagta 300
ggcaacaggg tttgccacag ctagctgagt tagagctggg acaatctggt gcaacaattc 360
ttgttgacag tatgtaggtg cattggccac agcgagcggg ctagatgaaa gcagttgttg 420
ctgttgtagg taggcggcag gggtcaccat ggctagttga ctaagcgctg gcagaaactg 480
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<210> 5158

<211> 509

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-B9

<400> 5158

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caggccaciaa tgacacattc ttcttcgtta cattacgtct cccagaaga gaagagcata 120
caccagaagt tccagtatat ataatcgacc accgaccatc agcatcagca taagtacgac 180
aacgcgcaca tcccctgttt attcaattat attgggtgtaa acatcacacg ctccatgttg 240
cgttgcatcc ttggccaccg gtgctgctt tcttcctcgt cgatcttaca tgctcggctt 300
caggttcagc ctagaagcca gttcttgccc aagagcggcg tcgcaactggg accagtagga 360
gatccaaatg gtacggtggt catgggtcac gcgagggctc gtcagtgcgt caaccatcg 420
ctggatgaac cgggtcttgc ttgcagggtc gaaggaacga tatctctcgc cagcctgctt 480
gaagttgttc tccttctgaa tgatgcact 509

<210> 5159

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-C1

<400> 5159

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caatgatggg ttgttggttag aacactgctg ggtttgtcaa agcaaggggg gtgaatggca 120
gcaattgttg cagttgtaag aggggtgccag cgtaggcgc aacgtgctgg tagaacggca 180
acaactgggg ttgtgtcaag aaggtagcag ggctcacacc agctagctgg ctgaatggta 240
gtagttgttg ctgctgtaaa taagcaggag agttcaatgc tgctagttgg ttgaatggaa 300
aaaattgctg gggggtaggc agcaggtagc tggctgaatg gtagttgttg ttgttgcaaa 360
taagaagccg agttcaatga acctagttgg ttgaatggaa aaaaccgctg ttgctgggag 420
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<210> 5160

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-C11

<400> 5160

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gttggggggg cccccccccc tttggggggg ggttttgggc ttttaaaaaa ttcccccccc 180
ttttgggggt gtggggggga cccccaacc ccaagggggg gggggggggc cccc 234

<210> 5161

<211> 546

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-C3

<400> 5161

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gataatgtgt gtcgtcttac tgcattatta catatataga tagagagaga tggatagagg 120

agatttccca aatatcatga atcagtagta gggcggaatg gcagcggaga cgccacaggg 180
 gttggtgcgg tagctgggca gctggtactg gtagagtcca cccatggcgg gcatgttctg 240
 cgccatcatc atggccatgg ggttgagacc ctgggctgcc agcagctgct gctgctgctg 300
 catcagagct ggctcgtaca ggctgctgct ggcggcagcg gcacgctcaa gctgcatcat 360
 catctgcagc tgctgcgcga cggactgcac gtccatcatc ctcatctgct gctggcagca 420
 ctggtgccgg agcggctgga acatggcgct cggctgcca caccggcgt agtagggcgc 480
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 ggcgcc 546

<210> 5162
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-080-Q1-N6-C4
 <400> 5162

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 ctaagctgaa gttcgcacca tttaccattc tgacataggg gaatcaaata agggaaccag 120
 cccacgggaa aaatttgcac ctggggcatt tggcgatcaa tagtaattcc tagctcccag 180
 gcaaagcaca ggccccaaa tagctgacgg gacgcactat gtatttcggg gggctgtaca 240
 agcccagata gggtagcaca caatttacag ggcgaaatag cccaaaaaca gccctaacaa 300
 agcaaattac tttattaggg actgccatcc tgcacactga ttccttcacg tacagctttt 360
 gcgccgcagg acctagccac tgactcaaac agttttctcaa tctcaggggc cctatgggta 420
 aaagaccggc tccaaaag 438

<210> 5163
 <211> 547
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-080-Q1-N6-C6
 <400> 5163

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cgcaaaaaca gggagaagta gacgctccat cgagagaagg aattggagtg tatcagcggg 120
tctgccgtcc ggacgcaaga actggcgagt gcaagaatgt gtgtggcgaa tcgcaaggcc 180
cgtcaccaat cctgatcgcc ttcattccctg tgaccttcaa cagccacatc tgcaaagtcg 240
agtcgccacc atctcaagcg tcaacggctt catcgagggc cccatcttcg gtctcatgta 300
agatcgcca ttgcaagtct ctctcatatg catgcatgga tgcgatggc atgcacaaac 360
aaggcaaggg ctgatgcttg tggccgacga tgcacacgct ggggctttcc gtgaccgtgc 420
cgccgcgatg ggccccgcc togacggagt cgcgttctcg ggtctggccg cgactgtgcc 480
cacgcagggg ccacacggtc tgcgctcgcc cgcgctatg gctacgccg cgctggccg 540
aaacgcc 547

<210> 5164
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-C8

<400> 5164

aacaccttaa tgtttgggtc ttttttggtt aacaccccg tggggggggg acagtttgg 59

<210> 5165
<211> 559
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-C9

<400> 5165

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ctcacgacaa ctgttgaaaa gggaaaatca gtacatgatg gccacaaaca tgcaagagct 120
ggaagtagat tccgagtaga ggtccaacgt ccaaggctct cgctatctcg agtcacaaac 180
ggtgccttct ggaagcgcg acaggtgcac aagaggggca tgtgatttca ggggaagcatt 240
ggcaccagtg atcttggctt cctttgttct gttgagcacc ttcttcacct cgtttgcaag 300
ctctatgatc gaatcatctt cgtggctaata gctggctaata gccttctcca ttgagaacag 360
gtaatcccta ttatagccag tagggccatt ggctgtagca atttgcttg ccatatctcg 420

caaaggagca gggccaagat agtacttggt gccaatgga tctggagtgg aaacgaacac 480
 taagacgcct gtcacagctg gtttcaaggg atctccttcc ttgtagaaat caatggatat 540
 cttctgggtcg tactcacac 559

<210> 5166

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-D10

<400> 5166

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 actataactc ataagaaatc taaaagaggg caccaccaat gatgggttgt tggtagaaca 120
 ctgctaggtt tgtcaaagca agttggttga atggcagcaa ttgttgctgt tgtaagaggg 180
 tgccagcggt aggcgcagcg tgctggtaga acggcaacaa ctgtggttgt gtcaagaagg 240
 tagcagggct cacaccagct agctggctga atggtagtag ttgttgctgc tgtaaataag 300
 caggagagtt caatgctgcc agttggttga atggaagaaa ttgttggggg taggcaacag 360
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<210> 5167

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-D11

<400> 5167

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 ttatttttga atttttaccc aaaaggaatt aaaaaagggg gccccccaaa gggggggggg 120
 ggggaaaaac ttttgggggt tttaaaaaaa agggggggga aggggaaaaa tttttgcctt 180
 ttaaaagggg ggccccgttt ggggcccccg ggggggtaaa aaggaaaaaa ttttttttgg 240
 ttaaaaaagg gaaaaggggt aaaaaaaaat aattgggtaa aagggggggg ttttttttgt 300
 gggaaaaaaa gggcaaattt aaattcttcc cgtgggttga aagaaaaaaa ttgggggggg 360
 gggggg 365

<210> 5168

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-D2

<400> 5168

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tgaattacaa ctaataatca atctaaaaga gggcaccacc aatgatgtgt tgttggtagg 120
aggctgctgg gtttgcataa gcaagttgga caaagggcaa caattgttgt agttgtaaga 180
ggggtgcggg gtagccgca aactgcttgt agaaaggcag caactgttgc tgtgtcaaga 240
aggaagcacg acttgctgca gctagctcgc taaatggcag tagtatttgc tgctgcaaatt 300
aagcagcggg gttcagtgcg gccaatgggt taaatggaag aagttgttgt tgctgagagt 360
aggcagtagc tagctggcta aatggtaata gttgttgctg caaataagca gcaggggtca 420
gtgtagacag ttgggtgaat ggaaaaaatt gttgttgc 458

<210> 5169

<211> 558

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-080-Q1-N6-D4

<400> 5169

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ctgccacca tggatgatgcg tgacacatta ttactcaatc atcgccgcta aatgactcaa 120
ctagctagct agccagcggc tatactacag cacatagttt cttcagtggg ggacaccgcc 180
ggcagcagcg taggggcatg gagtcggctg ctgcaggccg cacatcgccg tcagttgctg 240
cgctatctgc gccgccaaca gccccgcgac ctggccgctt tgcggctgct gctgcaggat 300
ggactggagg accaagccga agatcgcttg gtaccggtgc tgcggctcca cctgcctgag 360
ctgctggcaa cactgctgcc gcaacgactg gcaactgagg gagcagtagg gcgtcgccgt 420
cgggctgcac tgatgcctca gaaactcgac gcaactggccc aggatcgggg tgctgccaac 480
gccgcaggtt ccctgcagct ggcacgggct tggatgcggc tgttggcacc gncatgggtg 540

tggctgggga tgaggcta

558

<210> 5170

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-D5

<400> 5170

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tcgggttttag gggatgaagac agggagggac gggaaaggaa gaggaagaa ggggaaaaag 120
ggagggggga ggaaggggg gcaaggggga aggagagggg gggggagga ggggaaaag 180
ggggggaggg ggaagagggc aa 202

<210> 5171

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-D7

<400> 5171

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ctgccacca tggtgatgag tgacacatta ttactcaatc atcgccgcta aatgactcaa 120
ctagctagct agccagcggc tatactacag cacatagttt cttcagtggg ggacaccgcc 180
ggcagcagcg taggggcatg gagtcggctg ctgcaggccg cacatcgccg tcagttgctg 240
cgctatctgc gccgccaaca gcccgcgac ctggccgctt tggggctgct gctgcaggat 300
ggactggagg accaagccga agatcgctg gtaccgggtg tggggctcca cctgcctgag 360
ctgctggcaa cactgctgcc gcaacgactg gcactgaggg gagcagtagg gcgtcgccgt 420
cgggctgcac tgatgcctca gaaactcgac gcactggccc aggatcgggg 470

<210> 5172

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-080-Q1-N6-E1

<400> 5172

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ttattgaact ataactcata agcaatctaa aagaggcacc accaatgatt ggttggtggt 120
agaacactgt tgggtttgtc aaagcagggg gggggaatgg cagcaattgt tgcagttgta 180
agagggtgcc agcgttaggc atagcgtgca ggtagaacgg caacaactgt tgttggtgca 240
agaaggcagc agggctcaca tcagctagct ggctgaatgg tagtagttgt tgctgctgta 300
aataagcagc agagttcaat gctgctagtt ggttgaatgg aagaaattgc tgggggtagg 360
cagcaactag ctggctgaat ggtaattggt gttgcaaata agcagcagag ttcaatgcag 420
cc 422

<210> 5173

<211> 574

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-E10

<400> 5173

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gcaccattat cgagtacatc tcatatgtaa tctaaaagat ggcacctcca acgatgggtt 120
gctgcctcga caagacagga ttcacaaag agaactgggt gtatggcagc aattggtgct 180
gctgtaggaa ggcggcgacc aatgggttag ccactaccaa tggattaagt aactggtgct 240
gctgtttag gtacgcagca gagttcgaca gagtcagttg gttgaatgga agcagctggt 300
gcaagtaggc aacaggggtt gccacagcta gttgagtcag agctgggtaca atctggtgca 360
acaattgttg ttgcaggtat gtaggtgcat tgcccacagc gagcgggcta gatgaaagca 420
gttggttgttg ttgtacgtag gcggcagggt tcacatggc tagttgactg agcggtggca 480
gaaactgttg tagctgttgt tgttgctggt ttgcaactac gttcgccaga gcaagtgggt 540
tggatgcaag cagctgctct tgcaagtagg cggc 574

<210> 5174

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-E11

<400> 5174

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cattatccaa aaaactttat tattgaatta caacttatta tctatctaaa agagggcccc 120

accaatgatg tggtgttggt aggaagcccc ttgttttttc aaagcaagtt ggacaaaagg 180

caacaattgt tgtagttgta aaagggttgc ggggttagcc ccaaactgct ggtaaaaagg 240

cagcaactgt tgctttgtca aaaaggaaac accgtttgct gcaactagct ggctaaatgg 300

tagtagtatt tgctgctgca aataaacagc ggggttcaat gcggccaatt ggttaaatgg 360

aaaaaattgt tggtgcttaa agtaggcaat aactagctgg ctgaatggta ataattgttg 420

ctgc 424

<210> 5175

<211> 482

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-E2

<400> 5175

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attattgaac tataactcat aagaaatcta aaagagggca ccaccaatga tgggttggtg 120

gtagaatgct gttgggtttg tcaaagcaag ttggttgaat ggcagcaatt gttgcagttg 180

taagaggggtg ccagcgttag gcgcagcgtg ctggtagaac ggcaacaatt gtggttggtg 240

caaaaaggta gcagggctca caccagctag ctggctgaat ggtagtagtt gttgctgctg 300

taaataagca ggagagttca aagctgtcag ttggttgaat ggaaaaaatt gctgggggta 360

ggcagcaaat agctggctga atggtagttg ttgttggtgc aaataaaaag cagagttcaa 420

tgcagctagt tgggttgaatg gaagaaactg ttgttgctga gagtaggcaa caagggttgc 480

ta 482

<210> 5176

<211> 537

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-E4

<400> 5176

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actataactc atagaaacta aagggggcac caccaatgat gggttgttgg tagaatgctg 120

ctgggtttgt caaagcaagt tgggtgaatg gcagcaattg ttgcagttgt aagaggggtgc 180

cagcgtagg cgcagcgtgc tggtagaacg gcaacaactg tggttgtgtc aagaaggtag 240

cagggtcac accagctagc tggctgaatg gtagtagttg ttgctgctgt aaataagcag 300

gagagttcaa tgctgtcagt tgggtgaatg gaagaaattg ctgggggtag gcagcagata 360

gctggctgaa tggtagttgt tgttgttgca aataagaagc agagttcaat gcagctagtt 420

gggtgaatgg aagaaactgc tgttgcctgag agtaggcagc aaggtttgct agcacaagtt 480

ggtttagttg ttgtgccctg atgttttgtg ccaataaatg caccaaaggt aactgct 537

<210> 5177

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-E9

<400> 5177

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ttcctcccat tcccagcaag agtcagcaag aaaatgcaaa tcccccgaa gatacagcac 120

aaccatttta ccgacaagac atggtagct tggattcgtc agcgccaca cgaagcctgc 180

ttcgccccac aggcgcattc ctgatccagc ctggcaacca tcctcttctt cagacaagct 240

acacgccaca aaattcatga cggcatgcc taagctgact gaataatgca gcacattgat 300

gctct 305

<210> 5178

<211> 489

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-080-Q1-N6-F1

<400> 5178

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gttgtggttg cggggcccg ggggcgggcg gggggggggg cgggcgcggg ggcggggggg 120
gcggggggccg gggggggggg gggggggggc gcgggggggg ggggtggggg gtgggggggg 180
gggggggggg gggggggggg gggggggggc ggggtggggg gtggggggcg gtgggggggg 240
gcgggggggc gggggggggg gggggggggt ggggggcggg ggcggggggc gggggggtgg 300
tggggggggg ggggggcggg gggggggngg ggcggggtgg gggggggggg gggcggggcg 360
ggggggcggg gggggggggg gggggggggg ggggggcggg gggggggggg gggggggggg 420
ggtggggtgg ggggtggcg aggggggggg ggcggcgggg gggggcgggg ggggcggggg 480
gaggaagag 489

<210> 5179

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-F11

<400> 5179

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cccttttcga gtacctctca tatgtaatct aaaagatggc ccccccaacc atgggttgct 120
gcctcgacaa ggacagggtt catcaaaaag aactggttgt ttggcaacaa ttgttgcttc 180
tttaggaagg cggccaccaa tgggtttgcc cttccaatg gggttaataa ctgttgctcc 240
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aagtaggcaa caaggtttgc cacaacttgt tgagtcaaag ctggtacaat ttgttgcaac 360
aattgttggt gcaagttttt aggtgcattt cccacaacga gcgggcttaa ttaaaacaat 420
ttt 423

<210> 5180

<211> 298

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> ' Clone ID: LIB3061-080-Q1-N6-F12

<400> 5180

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ggggggnngg gggggggggg gggggggggg gggggggggg gggggggnng ggnngggggg 120
gggggggggg ggnngggggg gggggggggg ggggggnggg gggggggggg gggggggggg 180
gggggggggg gggggggggg gggggggggg gggggggggg gggggggggn gggggggggg 240
gggggggggg ggggggngg gggggggggg gggggngggg gggggngggg gggggggg 298

<210> 5181

<211> 543

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-F4

<400> 5181

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aactttatta ttacagtata aagcataaaa aaatctagaa gatggcacca ccaatggtgg 120
gctgctgcaa taaggtggta ggattcgtca aagcaagttg gttaaatggc agcaattggt 180
gttggtgtaa gaaggcgaca ttgtttgcca catcctgtgg gtagaatggt agcaactggt 240
gctgttgcaa gaaggcgta atgtttccca caacctgtgg gtaaaatggc agcaattggt 300
gttggtgttg caagaaagca gcaatgtttg ccacaacttg tagatggaat ggaagcaact 360
gttgctgcag taagaaggca gcagggtcc tgacaagttg gttgaatggt agtagctggt 420
gtgcctgcaa gtaagcagca gggttcacc cagctagttg attgaatgga agaaattggt 480
gttgctggag gtaagcagca aggttcgctg caactacttg attgattggt ggaagcaact 540
gtt 543

<210> 5182

<211> 58

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-080-Q1-N6-F6

<400> 5182

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<210> 5183

<211> 114

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-080-Q1-N6-G10

<400> 5183

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tttcattttt aatataaaga taaaggggtgg ggggtgtttt tttttttttt tttt 114

<210> 5184

<211> 563

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-G11

<400> 5184

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attgaactat aactcataag aaactaaaag gggcaccacc aatgatgggt tgttggtaga 120

acactgctgg gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180

gggtgccagc gttaggcgca acgtgctggt agaacggcaa caactgtggt tgtgtcaaga 240

aggtagcagg gctcacacca gctagctggc tgaatggtag tagttgttgc tgctgtaaatt 300

aagcaggaga gttcaatgct gctagttggt tgaatggaag aaattgctgg gggtaggcag 360

caggtagctg gctgaatggt agttgttgtt gttgcaaata agaagcagag ttcaatgaac 420

ctagttgggt gaatggaaga aactgctgtt gctgagagta ggcagcaagg tttgctagca 480

caagttgttg tagttgttgt gccctgatgt tttgtgcaa taaatgcacc aaaggtaact 540

gttgtaatag ggctgatgat tgc 563

<210> 5185

<211> 510

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-G3

<400> 5185

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ctgctgggtt tgtcaaagca agttgggtga atggcagcaa ttgttgctgt tgtaagaggg 180
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tagcagggtt cacaccagct agctggctga atggtagtag ttgttgctgc tgtaaataag 300
caggagagtt caatgctgcc agttgggtga atggaagaaa ttgctggggg taggcagcaa 360
gtagctggct gaatggtagt tggtgtgtgt gcaaattaga agcagagttc aatgcagcta 420
gttgggtgaa tggaagaaac tgctgtgtgt gagaggtggc agcaagggtt gctagcacia 480
gttgtgttag ttgtgtgtcc cctgtttttt 510

<210> 5186

<211> 556

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-G4

<400> 5186

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actataactc ataagaaact aaaagaggca ccaccaatga tgggttggtg gtagaacact 120
gctgggtttg tcaaagcaag ttgggtgaat ggcagcaatt gttgcagttg taagaggggtg 180
ccagcgttag gcgcaacgtg ctggtagaac ggcaacaact gtggttgtgt caagaaggta 240
gcagggttca caccagctag ctggctgaat ggtagtagtt gttgctgctg taaataagca 300
ggagagtcca atgctgctag ttgggtgaat ggaagaaatt gctgggggta ggcagcaggt 360
agctggctga atggtagttg ttgttggtgc aaataagaag cagagttcaa tgaacctagt 420
tggttgaatg gaagaaactg ctgttgctga gagtaggcag caaggtttgc tagcacaagt 480
tggtgtagtt gttgtgccct gatgttttgt gccataaat gcaccaaagg taactgttgt 540
aatagggctg atgatt 556

<210> 5187

<211> 518
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-080-Q1-N6-G7

 <400> 5187

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ctgctgggtt tgtcaaagca agttgggttga atggcagcaa ttgttgcagt tgtaagaggg  180
tgccagcggt aggcgcaacg tgctggtaga acggcaacaa ctgtgggttgt atcaaaaagg  240
tagcagggct cacaccaact agctggctga atggtagtag ttgttgctgc tgtaaataag  300
caggagagtt caatgctgcc agttgggttga atggaagaaa ttgctggggg taggcagcag  360
gtagctggct gaatggtagt tgttgttgtt gcaaataaaa agcaaagttc aatgcaacta  420
gttggttgaa tggaaaaaac tgctgttgct gaaagtaggc agcaagggtt gctaacacaa  480
gttggtttag ttgttgtgcc ctgatgtttt gtgcccac                                518
  
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<210> 5188
 <211> 513
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-080-Q1-N6-G9

 <400> 5188

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atcgagataa atctcaatca atatattgat tatttctagg aaacacatgt cggtatgagg   60
gcaccattgt cgagtacatc tcatatgtaa tctaaaagat ggcacctcca acgatgggtt  120
gctgcaaggc agggttcatc aaagagaact ggttgatagg cagcaattgt tgttgctgct  180
gcaggaaggt agcgaccaat gggttagcca ctgccaatgg attaagtaac tgttgctgct  240
gttgtaggta cgcagcagag tttgacacag ccagttgggt gaatggaagc aactgttgta  300
agtaggcagc agggtttgcc acagctagct gagtcagagc tggtaacaatt tgttgctgca  360
actgttggtt taggtacgta ggtgcattgc ccaccgcgag cgggctagat gaaagtagtt  420
gtaggtagac cgcaggggtc accatggcta gttgactgag cactggcata aactgttgca  480
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<210> 5189
 <211> 339
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-080-Q1-N6-H4

<400> 5189

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 gggggggggg gggggggggg nggggggggg gggggggggg ncnggggggg ggcggngggg 180
 gggggggcggg ggggggggtgg gggggggggg gggggggggg ggcctggggg gggggggggg 240
 gggggggggg gggggggggg ggggggggncn gggnggcggg ggggggggng gggggggggc 300
 gggggggggg gggggggggg ggggtggggg gggggggggg 339

<210> 5190
 <211> 508
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-081-Q1-N6-A1

<400> 5190

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 atactaaatg gggaagaaaa aaagggcggg gggggggaaa actttcaact gtttatctat 180
 cgccaaaaaa aatatagaag ggctttcatt ccttaatgag cccggatttc tctgtttctt 240
 ttagacaact acaaaaacgg ggtttgctgg gggaaccca caggatacac tgacaaacgt 300
 aaaactggct ccagtttatg ctactatgcc gcaaccggct gaacgagccc tgtcccggg 360
 ggagtgtgtg cgctgtttgc agcagcattc tgatcatacc ttgacaaggg cttgtttacc 420
 gggtgcagca gcctgccgtc cctccggggg ggcccaaacc cccagggatt gccacgtct 480
 gcagcccccg ggggggaaac acaccatt 508

<210> 5191

<211> 538
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-081-Q1-N6-B1

<400> 5191

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ggaagnntaa ctcataagca atgtaaaaga gggcaccacc attgttgggt tgttggtnga 120
accctnntnn ntttttgggg ggcggtgggg gggaatnca ncnannnnnn canttnnat 180
aagaaaccaa aaaaaagccc cccttgcttg ttttttngnt gcggctgggg gggggggggg 240
gggggggggg ggcggggggg gggggggggg ggggggtggg gggggggggg gggggcgtn 300
gggggtgggg gggggggggg ggggggggtg ggtggggcg gggggggggg ggggggggg 360
gggggggggg gggggggggg gggggggggg ggggggggtg gggggggggg ggggggggg 420
gggggggggg gggggggggg ggggggtggg gggggggcg gggggggcg ggggggggg 480
gggggggggg ggggggtggg ggcggggggg gggggggggg gggggggggg cgggcgac 538

<210> 5192
<211> 530
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-B10

<400> 5192

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aacagcgaca tatagagtgg tcaagtataa ttaatgcatg ccaactctgt cacagaaact 120
ctgccatagt tacagttcaa ggcacaaaaa ctgttacagc tatgcaaaac cttttatatt 180
tcatcatttc tgtgcctcct atttgtattc aaggaggtgt ttttgatctg cgaagcagcc 240
gtctatggct catcccggcc gcaagtattc tgaattcttc ttcccaatgc tggacagcac 300
ctcacatgcg cgacctcgcc gaaccttgct gtgatgttcc tgggtgcgctc aatggtacac 360
cacttttagc togttggtcc aaatacgatg aaggtttgaa gaagggacca tacatttcgg 420
cccacttgct tagcttcgaa tgtatgtaag gcgctccaac agtgtcagcc cagaagacaa 480
gaccaccctt gtttttggga aagcccatc caagaacaga agcaatatca 530

<210> 5193
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-081-Q1-N6-B2

 <400> 5193

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ggggggggcca cttttttaa ccttggtgat tacaaaaagg tttttattac ctttcatcca 60
caaggataaaa aatacgggtg ggaacaaaat ttaaaggggc agcttcccc gcccttttgg 120
ttttttaccc aaccattccc aaacttgaaa tttccaaaac aacaaaaact tattgaatta 180
acttaatttt aacaaaatta gggccaataa aacgcttgga gtttttaa at tttggaaaca 240
cccaccccc caaacaatgt ttctcccc cggtttttta taatattggc tttttcaaag 300
ggtttttttt tttttttgt tttccgataa attttttgaa aggggaacctt tttccgatta 360
atatttcagg cgcccaattt ttttcgggtg ttttcc 396

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<210> 5194
 <211> 557
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-081-Q1-N6-B3

 <400> 5194

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caaggcaggg ttcacaaag agaactggtt gtatggcagc aattggtgtt gctgctgcag 180
gaaggtagcg accaatgggt tagccactgc caatggatta agtaactgtt gtcgctgttg 240
taggtacgca gcagagtttg acacagccag ttggttgaat ggaagcaact gttgtaagta 300
ggcagcaggg tttgccacag ctagctgagt cagagctggt acaatttggt gcagcaactg 360
ttgttgtagg tacgtaggtg cattgcccac cgcgagcggg ctagatgaaa gtagttgtag 420
gtagacggca gggttcacca tggctagttg actgagcaact ggcataaact gttgcagctt 480
ttggtgttgc tggatatgcag ctacgttcgc cagagcaagt gggtttgat gcaagcagct 540
gctgttgcaa gtaaggt 557

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<210> 5195

<211> 543

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-B4

<400> 5195

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tcgtcttact gcattattac atatatagat agagagggat ggatagagga gatttcccaa 120
atatcatgaa tcagtagtag ggcggaatgg cagcggagac gccacagggg ttggtgcggt 180
agctgggcag ctggtactgg tactggtaga gtccacccat ggccggcatg ttctgcgcca 240
tcatcatggc catgggggtg agaccctggg ctgccagcag ctgctgctgc tgctgcatca 300
gagctggctc gtacaggctg ctgctggcgg cagcggcacg ctcaagctgc atcatcatct 360
gcagctgctg cgcgacggac tgcacgtcca tcatcctcat ctgctgctgg cagcactgtt 420
gccggagcgg ctggtacatg gcgctcgtct gccacacccc ggcgtagtag ggcgcgcgcg 480
ccagcgggct gcaactgcggc tgcctcaggt actccgcgta ggggtacagc ccgcccggcg 540
cca 543

<210> 5196

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-B6

<400> 5196

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gcattattgg acaagcttaa gaattagcct catcaggaac cagatctccc gctgcgagaa 180
attcggagtt gtggctcctc tagctgccga ctggttgctc aagctgcccc ctttcaggtc 240
gggcttgggc aggggcaggg cgatgagctc aaagactgcc ttggtgattt tcggcaccag 300
gtctgacgat gaccccgctc actcccatga ggtgctgcat gtaaaccgcc tacggcacgt 360
tgctcaaagt tccatacgtt agcacggaaa gggtagcttc cttgatcctt ggcacggagg 420

cggggtgcct gaagatcccc cgggcttttg aaactattcc ttgca

465

<210> 5197

<211> 512

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-B7

<400> 5197

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ctgcaaggca gggttcatca aagagaactg gttgtatggc agcaattgtt gttgctgctg 180
caggaaggta gcgaccaatg ggtagccac tgccaatgga ttaagtaact gttgtcgctg 240
ttgtaggtac gcagcagagt ttgacacatc cagttgggtg aatggaagca actgttgtaa 300
gtaggcagca gggtttgcca cagctagctg agtcagagct ggtacaattt gttgcagcaa 360
ctgttggttg aggtacgtag gtgcattgcc caccgcgagc gggctagatg aaagtagttg 420
taggtagacg gcagggttca ccatggctag ttgactgagc actggcataa actgttgacg 480
ctgttggttg tgctggtatg caactacctt cg 512

<210> 5198

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-C10

<400> 5198

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gagaggcttg acgtccacct tgccgctgag caggaagtcg atgcacagtg gccaggtgtc 120
cttgtagcgg aacacgcccc ccacgtccac ctcccgcgcc gccgcgccc tcaggggcag 180
cgcatctctg ttgtggcccc tcccaccag gcacacctc ccgcggggcc gcgtcgctc 240
cagcgccgtc gacatggtct tgctgaacct ggcgagtc aggtgacgt cgatgtccga 300
gcccattggc gcgcggatgc gctccacctc gtccgccagg tcctccgcgc ggggcgacac 360
ccgcaccgcc gcgtccgcgc ccagcgacct ggccacggcc aggcgggtgt cgtccacgtc 420

cacgaccacc acgcgcggcg cgccgaaggc ccgc

454

<210> 5199

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-C3

<400> 5199

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gggggggggg ccgggggttt aaaaaaaagg ggggaaaaaa gggaaaaatt ttgtttttta 180
aaaaaggggg ggggggggtc cccaacacc gggggaaaaa agggaaaccc ttgtgtgttt 240
aaaaaaaaaa aaaacggggg tctcaaaact cggggaaaaa agggggagtt ttttgtgggg 300
caaaaaaaaa gagggggggg aaaggggcaa aaaaaggggg ggggggcccc ccg 353

<210> 5200

<211> 562

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-C4

<400> 5200

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ctgctggggt tgtcaaagca agttggacaa agggcagcaa ctgttgcagt tgtaagaggg 180
ttgcgggggt agccacaaac tgctggtaga acggaagcac ttgttgttgt gtcaagaagg 240
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cagagggggt cagtgcggcc aattgggtta atggaagaaa ttgttgcctgc tgagagtagg 360
cagtagctag ctggctgaat ggtagtagtt gttgttgcctg caaataagca gcaggggttc 420
gtatagacag ttggttgaat ggaagaaatt gttgttgcctg agagtagggg gaaaggtttg 480
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tttgtaccaa tggactgcac ca 562

<210> 5201
 <211> 64
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-081-Q1-N6-C5

 <400> 5201

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 tcgc 64

<210> 5202
 <211> 117
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-081-Q1-N6-C6

 <400> 5202

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<210> 5203
 <211> 519
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-081-Q1-N6-C8

 <400> 5203

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 aactataact cataagaaat ctaaaagagg gcaccaccaa tgatggggtg ttggtagaat 120
 gctgttgggt ttgtcaaagc aagttgggtg aatggcagca attgttgcag ttgtaagagg 180
 gtgccagcgt taggcgcagc gtgctggtag aacggcaaca attgtgggtg tgtcaagaag 240
 gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
 gcaggagagt tcaaagctgt cagttgggtg aatggaagaa attgctgggg gtaggcagca 360
 gatagctggc tgaatggtag ttgttggtgt tgcaaataag aagcagagtt caatgcagct 420
 agttggttga atggaagaaa ctgttggtgc tgagagtagg cagcaagggt tgctagcaca 480

agttgttgta gttggtgggc cctggtgttt tgtgccaat

519

<210> 5204

<211> 525

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-C9

<400> 5204

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tagttactaa gttaatcgca gattcagttc acggaagaac agaacggtat acattggtca 180
gacgaagaaa ccaacaaatc tactggagca acagggagga agaaggatgg caatctcacg 240
gaccagcaga acggcgccgc aagcgcgatc aggtcacgcg atgacaaaca ccctgagctc 300
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gtccccggtg ttggacggcg gccggaggtt gtccgggatg cggggcacct ccagcggagg 420
aagctgcgac aggttgccct tggctctcac cgctcgtctc tcgaacgtga tcttgatgcc 480
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<210> 5205

<211> 558

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-D11

<400> 5205

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ctgtcatagt agtattatta atcaccagat gcaccaacag caggcgatcc ggctgccaac 180
gagcagaggc accctcagac aagcacctga gctgcagcta gcctagcgat cgggaccctg 240
aaagggggagc aagaaacgta atccagccca gtcttggcga agaaagcaac cgatgaaggc 300
tctccaccat gttctccaca aatgccacc ttcaagttag gcctagcttt gcggccctc 360
tctgtagcaa gcttaaccag ctgcgccact cctctctggt cgagaacctc gaaggggtca 420

tgctggagga tgcctgagc cagataaatg gggatgaact tccccacatc atccctgctg 480
tagccaaagg tcactgcgt gaggtcggtc gttccaaagg agaagaattc agcctgctcc 540
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<210> 5206

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-081-Q1-N6-D12

<400> 5206

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ccttttggcc taactagtgt ngcgaaacta ctgagtacaa tgtttcttaa cactaaaact 120
ggtactagtt cttggggggg ggggggtgca tcaggagggg cgcacctnct aattgtttga 180
aacacaaaaa catcaaagct ggttctgaac atttttcaat cccattggct tcaaactcagt 240
ngagcctgat tctcgtggtg ttgtgctgct ggctcagagg gcagcgctcc aaatctctcc 300
cgcttccatt gcaagtctgg tgtccacacc caaatgcaag gtcctttggt tttttcttgc 360
cgatggggcc ccgaattctg tcctctcaag cccttttttg gtgcgctggt gtctgggtccc 420
cggtcgcgtg gg 432

<210> 5207

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-D2

<400> 5207

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ttttgggtaa acccccgttt tggggataaa gggggggggg gacaaaattt tttaatggga 120
aaccocccaa aggggtatggg gggggggggg attttttggg gggggggggg ggcccaaccc 180
ccccattggg ggggggggttt gggcctctta aaaaatcgcc ccccccttg gggggggggg 240
gggggacccc aaaaacaaaa aggggggggg ggggggcccc cccg 284

<210> 5208
 <211> 508
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-081-Q1-N6-D3

 <400> 5208

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acttttattg actactacga cgagcgtact acgcgtgtgc tcttgcttcc cattcattcc 180
catcggggca tacgtaccgg tatactattt agttgtggac ctcgacgagc tcaggacggt 240
acatgggctc tggtatctga tcagggtgcg agcagcaccg gcagccgcca tggtagccgc 300
ggttgcagca gcccaccgg cagtgcgggt agccgccgnc gccgccgccc ccgtgaccgg 360
ggtagccgcc gccgcgtgc cagtcttgga cctccacctt cttttcctct ttggccgctt 420
tggcttgctc gttagcggga gcggcgagga aagtggcggc aaacaaggac gttagcacga 480
ggagcgcctt ggaccccatg atgctagc 508
  
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<210> 5209
 <211> 500
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-081-Q1-N6-D4

 <400> 5209

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gatgaacaca gcactaacia ctgacacaaa gcgaccttgc aatcaaaaac acagatgggc 180
aacaacaaac gagacgaacg aagataaacc ctttggacta gggtaaacad cacgggagcg 240
aacaggataa cttggccgcg cgggccccac cggtcagttc ctccagttcc cgtcggagtt 300
gccgtagccg ccgccacggt tgccaccggc gtagccgcca ccaccaccac cgtagccacc 360
ggcgccaccg tagccgcccgc cgccaccgcc gtagccgccc ccgccattac ggggcccggc 420
  
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accgncgtag ccgccgcctt cacgggcacc accgtagccg gcgccgccgt cttcacgggc 480
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<210> 5210

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-D5

<400> 5210

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ggaggacccc gcccggtggt gaaaacaaac taaagttggg gcagggggac acccattcca 180
aggaccagcc tggttggtgc gcgtccataa aataccacaa atttttttcc catgggggag 240
gggattcaaa aacctggggc gctttttatg ccccatggcc cccaaagttt ggggggggtg 300
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<210> 5211

<211> 542

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-D9

<400> 5211

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aaattttaaag tgggtatagc agggaaacag cgtacatggg aaataaataa agaccgcatg 120
aactcaaaaa taaaccaaac agccaaaagg catggggcggg ttttcgtctt cttttttttt 180
taacacacac acaaacacaa gggccacgtg gcgcggagagg gttttttattc agtagtagta 240
cacctagcag tagtagacat gcaagtcgtg acgatcatgc gtaggttagct agatatggtc 300
atgacgggtcc gatccgcggg cgccgacgta cggcgggata gatatggatc gtcttcagggt 360
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gtgctgatgg ttaggggat gctgacgccg cacttgaggg ggatgctggc ggcgttgccg 480
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ta

542

<210> 5212

<211> 484

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-E11

<400> 5212

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attgttgcag ttgtaagagg gtgccagcgt taggcgcaac gtgctggtag aacggcaaca 180
actgtgggtt tgtcaagaag gtagcagggc tcacaccagc tagctggctg aatggtagta 240
gttgttgcctg ctgtaaataa gcaggagagt tcaatgctgc tagttgggtg aatggaagaa 300
attgctgggg gtaggcagca ggtagctggc tgaatggtag ttgttgttgt tgcaaataag 360
aagcagagtt caatgaacct agttggttga atggaagaaa ctgctgttgc tgagagtagg 420
cagcaagggtt tgctagcaca agttgttcta gttgttctgc cctgatgttt tgtgccaaata 480
aatg 484

<210> 5213

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-E12

<400> 5213

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tctttctgcc cccccaccc gtttttttgg ggggggggga taaaaggggg ggggttctctc 180
cctttccttg accaaaaata agacacccaa ctggccatcc cacatgctgc tgccctggggc 240
tggtgggaat ccttctcccg gggctggccc tgggtccctg gtttttctgc gtccgtgcga 300
tgctgctctc cccgcccgga ggggtgcggg tccccccac acgctcgagg gttgggtccc 360
ccccgtcccc caaatgggg cgggcctggg gcccttcgc tttcggggg 409

<210> 5214
 <211> 537
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-E2

<400> 5214

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 actctgatta acaacattat taagtggggg ttcctttaat taaagggtgaa gtgaccgtgc 180
 tgctacatcc ctctattccc caagcagaaa ttaggtgcct tcaccggaag tttgggcaaa 240
 atccctaaga acgatccgga agtccaccac ccacaacgaa aagttccggg tacttctgcc 300
 gcatcagctc ctcaagttcc catgtagcct cgcgctcaga ctgattagtc cataagacct 360
 tgacatactt aattgatctc ttcctcaaca cacgctccga gaattccaat atacgcaccg 420
 aacgacactc cagagtcaga tctgtctgca ccgcaattgg ttccatctca atctgatggt 480
 ccggatcccg caagaacttc ctcaacatag agacatgaaa aaccgggtgt acccctg 537

<210> 5215
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-E3

<400> 5215

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 acccagggcg gaaggggtcc cctgtttcca aatggggggg gtttttaaagg cgggggaata 120
 aagggggaaa aagctaaaag tgagaaaaaa ggggtccctg tagagtgacc aaacagaaaa 180
 aaaagggggg ggaaaaaagg aaaacttggg gggcccgaaa gggggggggc ccccggaata 240
 aagggatcag ccaaaccgcc ggaaaaggag gggggaaaat taggggcccc gggcgtttt 299

<210> 5216
 <211> 496
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-E6

<400> 5216

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cctgcatgta tatcccatcg tcctcctggg attgctgttt tggaggactg agaatttctt 180
ctaggggtgc tgttgctgat cgagctggcg tcagttctgc tttgctgggg tcgggtgctg 240
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gtcgtcattc ttgggcgacc ggcgcgggcg tccctccttg ttctccggca ggagcttgat 360
gacgatgcc atggttatga ggaggagtcc cgtcgcgtgc tgctccgtca ggggcttggt 420
gaatatcagg tacgacagca gcagcgtcac cgcttctctc gccgtcgtca ccatggctgt 480
ggttgctgca ccgaaa 496

<210> 5217

<211> 481

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-E7

<400> 5217

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ctgccacca tggggatgcg tgacacatta ttactcaatc atcgccgcta aatgactcaa 120
ctagctagct agccagcggc ttactacag cacatagttt cttcagtggg ggacaccccc 180
ggcagcagcg taggggcatg gagtcggctg ctgcaggccc cacatcgccg tcagttgctg 240
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ctgctggcaa cactgctgcc gcaacgactg gcactgaggg gagcagtagg gcgtccccct 420
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<210> 5218

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-E8

<400> 5218

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ttgttggttag gaggtgctg gggttggtcaa agcaagttgg acaaaggga acaattgttg 180
tagttgtaag aggggtgcgg gggttagccgc aaactgctgg tagaaaggca gcaactgttg 240
ctgtgtcaag aaggaagcac ggcttgctgc agctagctgg ctaaattgga gtaatatattg 300
ctgctgcaaa taagcagcga gggtcagtcg ggccaattgg ttaaattgga gaagttgttg 360
ttgatgagag taggcagtag ctagctggct gaattggaat agttgttgct gcaaataagc 420
agcagggttc agtgtagata gttggttgaa tggaagaaat tgttggtgct gatagta 477

<210> 5219

<211> 550

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-E9

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ctgccacca tggatgatgcg tgacacatta ttactcaatc atcgccgcta aatgactcaa 120
ctagctagct agccagcggc tatactacag cacatagttt cttcagtgga ggacaccgcc 180
ggcagcagcg taggggcatg gagtcggctg ctgcaggccg cacatcgccg tcagttgctg 240
cgctatctgc gccgccaaca gcccgcgac ctggccgctt tgcggctgct gctgcaggat 300
ggactggagg accaagccga agatcgcttg gtaccggtgc tgcggctcca cctgcctgag 360
ctgctggcaa cactgctgcc gcaacgactg gcaactgagg gagcagtagg gcgtcgccgt 420
cgggctgcac tgatgcctca gaaactcgac gcaactggcc aggatcgggg tgctgccaac 480
gccgcaggtt ccctgcagct ggcacgggct tggatgcggc tgttggcacg ggcattgggt 540
gtggctgggg 550

<210> 5220

<211> 565
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-081-Q1-N6-F1

<400> 5220

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cgagttncaa ccgtttgtgg gggggggggg ccctatatct aggaagactg acatcncanc 180
tgggagcat actaacaat cgaagggggc ctttgactgg tngggctggc gctggtttcc 240
caaagctgcg cgctgtccg gtggcggggg caacaccgg gttggcatg gctcttgctt 300
gctgcggggg gcggtttgac cagtggttct gccggcgggc tcattggta aacctgtggc 360
gcgcctcgcg gggggccggg cgtgtggggc tgcgggccgc cgggggtggg ctgcgcgctg 420
tggggccgcc cggggcgggg gggcctgggg tggcgggggg gccggggggg ggggggcgcg 480
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<210> 5221
 <211> 509
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-F10

<400> 5221

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ccgtagcatt ccaaacattc aagtccccct atttatcgaa accatcactc tagcaaatcc 180
cacaaacaga agttaaaggg taccagcta tgcctgggta gcatttttta tgttgagca 240
aaaaaggata cattccccgc ttgcgaggtc gattcagctt cctatttccc agctcggcga 300
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gatagtctgc ttactgttgc gcgcactgca ctctctgggc tccgcccggc atctcgctgt 420
cctcctcgta cgctctctgg gcagcgtgag cttgcttctt gcgcactctt tcctcgatgt 480
  
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509

<210> 5222

<211> 521

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-081-Q1-N6-F11

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caaaaaaaaa aggggggggg ggggggaaaa acggggggga aaaaacacca aaggggggga 240
aaaaaaaaaga aaaaaccccc ttgggggaaa aaacgggggg ggaaaaaaaa ttgttaaagg 300
caaaacaccc aaaaaaagg gggggggaag gggataattt gggggggggg gggggccaaa 360
accccaaaaa gggggggggg aggcgcccc ccaaaaaaac ccccccccc ctgggggggg 420
gggggggaaa ccaaaaaaaa aaaaaagg gggggggggc ccccccccg ggggggggaa 480
aaccgcgcgg ggnatcgcgc gggggggatt ttttgggggg g 521

<210> 5223

<211> 128

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-F3

<400> 5223

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cccctttggg cgccctaagg gggggccccc cccctttttt tttttttttt ggggggccc 120
cttttttt 128

<210> 5224

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-F7

<400> 5224

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ggggctttgg ggtagatcaa aaaggtaagc cctttttttt tgaacaaggc caaaaaaacc 120
gggtaatttt tttttttggg gggaaaaata cttggccatc ccactccta aacctaataa 180
acaagatccc cccacccgtt gggctttttt ggaatttttt ttttaaccct ttcggggggg 240
gccccaccaa aggggggtga aaaaaaaaaa gaaaagggtt tttaaaacc cccccccacc 300
aagaaagggg gggcggtgaa aatttgcccg ccaacccga tgggaccctt tttgaaaaaa 360
aaacaaacct ggggaaaggg cttggccatc ccaaccttaa aaacaaagg ttaaaacccc 420
cttgggggga aattcttaag ggggggggga a 451

<210> 5225

<211> 527

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-F8

<400> 5225

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gtaaccgact cccaacttgg ggctcctact gttcaccagc gatataggaa tccagcatcg 180
gtttcagctt ggtactgtca caatcctgtt ctgcagcaca gatgagagga ttcccggcta 240
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ctatgtactg gagtcttccg agtcggccta aagaatttgg gactgtgcca tgtaatttgt 360
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caattatggt gttgttctgc agctgaagct tctcaagttt tgtcaggttc cctatgctcg 480
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<210> 5226

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-F9

<400> 5226

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ccactattat ggtaactgct gtgtacgtgg aataactgat cctggcacgt acatggttcg 120
cattcgggtt gcctttttaa 140

<210> 5227

<211> 509

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-G10

<400> 5227

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tgacacatac agaacgaagg actaacatat acacatatgc atacaagagc ttctttatta 180
tttgacacac gatagactgt gacgaggaac taattaatat atctatttga aatcaagcat 240
catgctgttg aaatcaaagt tgacgcaggt agacaccgat agcgtcgacg agcctggttc 300
ccgcgcgtcc gtagaatccc acgacgtgc tgccgatggg cgcggtgatg cagaagcgtg 360
tcccgttctc ggtgccccat gggccccagg ctctggtgct ggtgatgaac ctgagcgagg 420
ttagggtagt agcaccttca aatgtgccgt acgttcctga cacctccctg atgtgttcgt 480
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<210> 5228

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-081-Q1-N6-G2

<400> 5228

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tgccacaact agctgagtca gagctggtag aatctgttgc aacaattgtt gttgcaggta 360
tgtaggtgca ttggccacag cgagcgggct agaagaaagc agttgttggg gttgtaggta 420
ggcggcag 428

<210> 5229
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-G6

<400> 5229

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taggaggccg ctgggtctgt caaagcaagt tggacaaagg gcaacaattg ttgtagttgt 180
aagaggggtg cgggggttagc cgcaaactgc tggtagaaag gcagcaactg ttgctgtgtc 240
aagaaggaag cacggtttgc tgcagctagc tggctaaatg gtagtagtat ttgctgtgtc 300
aaataagcag cgggggttcag tgcggccaat tggttaaatg gaagaagttg ttgttgctga 360
gagtaggcag tagctagctg gctaaatggg aatagttggt gctgcaaata agcagcaggg 420
ttcagtgtaa acagttgggt gaatggaaga aattgttggt gc 462

<210> 5230
<211> 517
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-G7

<400> 5230

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tgacataatg ttcgggttaca acttacacca gtctatgaac gaaaagaagg ggaaaaactt 180
cggagcaacg accaatgtaa ggcaaaaact acaaacagac aaagattata aacacaaaat 240

agtcgctctc tctcttaaca gtagtacctc tcccacgggc attcgtctat cctggacatg 300
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 gctgctcgcc tattgcagtt ctacggggcac ggacaaacga gtataactga ttagccaaat 420
 ccgaaacctt catttgcttc gtggattgcc aatagtaacc gtccttgag ctgctctttg 480
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<210> 5231

<211> 540

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-G8

<400> 5231

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 ccacaggaac acttagagta ctctcatca cctttgttgc agagaagaga ttctagatcc 180
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 accgggggatg acgcagttca aagggtcgac ggtgaagcgg tctgcgacaa cgcttctgagg 360
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 cttcacttgt tgatggagag cacataacac gtgttatctt ggtgtgtcac tgcgagacta 480
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<210> 5232

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-G9

<400> 5232

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 gggggacgct tttgggttgg tcaaaccaag ttggttgaat aaaaaaatt ggtgcacttg 180

taagaggggtg ccagcgtag ggcgagcgtg caggttgaac cgcaacaact ggtgggtgtgt 240
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<210> 5233
 <211> 464
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-081-Q1-N6-H10

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 gggggggggg gggggggggn gggggggggg nnggtggggg gggggggggn gggggggggg 420
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<210> 5234
 <211> 539
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-091-Q1-N6-A1

<400> 5234
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 ggggggagag aggggggggg ggagtaggga gggggggggg agggggaggg gagggagagg 120
 ggggaggaag ggggaggggg agggaggggg ggggaggggg gggggagggg ggggggggaa 180
 gngggaatga aggggggggg gggggggggg ggggggagag ggaggggggg ggaggggggg 240
 ggtggggggg gagggaaagg agggggaggg gggagggaga gggggggggg gggggggggg 300

gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggaggaggg 360
 agagaggggg aaggaggggg aggggggggg gggggggggg ggggggggag gggggggggg 420
 gggagaggag ggaggggggg gggggggggg aggggagggg agaggcgagg ggaggggaaa 480
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<210> 5235
 <211> 333
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-091-Q1-N6-B1
 <400> 5235

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 gaaatttaga aacaagagtt ggctaggagt aaatttgcca tcagtcagtt aaaaagtgtg 180
 gaggttggtt ataaattatg gcctataata tacacgatca ggggtgaggt tatagagttg 240
 gtgggggggat aattaaagag atgcttgtat aggggatgta aataaacata ttaagtttag 300
 gataattaat agtggtttat aaagttatgg ggt 333

<210> 5236
 <211> 163
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-091-Q1-N6-B10
 <400> 5236

gggggggggg gttttataaa aaatttttaa tttttttttt ttttaatagtt tttttggggg 60
 agaagagaaa tttttttttt gggggggggg ggggggtttt atgaaaaaaa attttttttt 120
 tggagatttt atgttaaaaa aaaaaaaaag ggggggttgg ttt 163

<210> 5237
 <211> 575
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3061-091-Q1-N6-B3

<400> 5237

cgctgccgcg tcttaacttg gtctcttana ggccgccttt tttttttttt taactagaaa 60
gtcttttcttt ttctgggagc ccaaactcag caaaaaattt attattgaac tataacnata 120
agaaactaaa agaggcacca ccaatgatgg gttgttggtga gaatgctgct gggtttgtca 180
aagcaagttg gttgaatggc agcaattggt gcagttgtaa gagggtgcca gcgttaggcg 240
cagcgtgctg gtagaacggc aacaactgtg gttgtgtcaa gaaggtagca gggctcacac 300
cagctagctg gctgaatggt agtagttggt gctgctgtaa ataagcagga gagttcaatg 360
ctgtcagttg gttgaatgga agaaattgct gggggtaggc agcagatagc tggctgaatg 420
gtagttgttg ttgttgcaaa taagaagcag agttaaatgc agctagttgg ttgaatggaa 480
gaaactgctg ttgctgagag taggcagnaa ggtttgctag cacaagttgt tgtagttggt 540
gtgccctgat gttttgtgcc aataaaagca ccaaa 575

<210> 5238

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-091-Q1-N6-B7

<400> 5238

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tattgaacta taactcataa gaaatctaaa agagggcacc accaatgatg ggttggttgg 120
agaacactgc taggtttgtc aaagcaagtt ggttgaatgg cagcaattgt tgcagttgta 180
agagggtgcc agcgttaggc gcagcgtgct gtagaacggc caacaactgt ggttgtgtca 240
agaaggtagc agggctcaca ccagctagct ggctgaatgg tagtagttgt tgctgctgta 300
aataagcagg agagttcaat gctgccagtt ggttgaatgg aagaaattgt tgggggtagg 360
caacaggtag ctggctgaat ggtcgttgct gtt 393

<210> 5239

<211> 513

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-091-Q1-N6-B8

<400> 5239

aaaatagggt tttattgtat ttttttgttt tttgtgttta tttttggaaa gaaaagggtc 60
tgtttttgtt catccgaacc cgggggggga cggggggaac cggggcaccg gccccggggg 120
ggaaccaggt cccccaccag ggagaaatgc caaacgcggg gggaaaaaag gaaaaggggg 180
gggtccgggg gaaaagggtg gcggcacaaa aaagcacaaa aaaaaccagc cggggagaaa 240
aaggagaaac cggggggggc caaaaggggg ggcaaagcaa caaaaaaggg aagagcccca 300
cgggcccga ggcaacggga aaaccaggaa cgccaacggg tttaaaaaaa caagaaacac 360
ccgggggggg ggggttcctc ctaggggcac cggggaggga aaccttataa ccaggaggac 420
gggcaaaaaa agaagggact ggacaacggg gccactaaa agcacaacaa aaagggtcca 480
aagggtgttc cccaacgggc caaaaaaccc aac 513

<210> 5240

<211> 527

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-091-Q1-N6-B9

<400> 5240

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tattgaacta taactcataa gaaatctaaa agaggcacca ccaatgatgg gttgttggtg 120
gaatgctgtt gggtttgtca aagcaagttg gttgaatggc agcaattgtt gcagttgtaa 180
gagggtgcca gcgttaggcg cagcgtgctg gtagaacggc aacaattgtg gttgtgtcaa 240
gaaggtagca gggctcacac cagctagctg gctgaatggg agtagttgtt gctgctgtaa 300
ataagcagga gagttcaaag ctgtcagttg gttgaatgga agaaattgct gggggtaggc 360
agcagatagc tggctgaatg gtagttgttg ttgttgcaaa taagaagcag agttcaatgc 420
atctagttgg ttgaatggaa gaaactgttg ttgctgagag taagcaacaa ggtttgcttg 480
cacaaagttg ttggagttgt tgtgccctga tgttttgtgc caataaa 527

<210> 5241

<211> 517

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-091-Q1-N6-C10

<400> 5241

ggtaggtcaa ataatgattt attaagtcgt cttctcgggt aatttaaacc atgcatggcg 60
cccaccatgc cagtagcaat ataattcatg tgattgtatg atgcttcact tcccactcat 120
gcatcagtag aaaccttcac aagtgttttt tttttgcact cattaataag gtaaggtaat 180
atacgtattg ctatatatct ctctctccct tcattcccca ctttaactct ttaatttact 240
catcacagta catttataat ttgtgtggta ttattaattc ttccacaccc ggccggccag 300
ttgatgacga caagcgctga tctttcgcac gaccggcatt gatcagtaga aaccttggat 360
ctttttcgga gccaccgcca ccgccngac agccttgtcc acgagcttat tcttgccacc 420
ctctcgcccg gagtttaagc cgaaaggatg ttcggataat gtgcccagtt cttggctgct 480
gtgctgaagg cttccctgtg gctaattgtc ggggttgt 517

<210> 5242
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-091-Q1-N6-C12

<400> 5242

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gggggggggg ggggggggtg ggggtggggg gggggggggg gggggggggg gggggggtgg 120
gggggggggg gggggggggg gggggggggg gtgggggggg gtgggggggg gggggggggg 180
gggggggggg nggggggggg gggggtgggg gggggtgggg ggcggggggg tggggggggg 240
gggggggggg ggggtggggg gggggggggg gggggggggg gggggggggg gggggggggg 300
gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggg 356

<210> 5243
<211> 508
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-091-Q1-N6-C2

<400> 5243

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ctcacactgc caccatggt gatgggtgac actccgttac tcatcgccgc taaacgagtg 120
aactagctat agccctatag gtagctagtc agcggctcca ttacattatt actacagtac 180
atagtttcct cagtagtaga caccgcccgc agctgcgttg caagggcagg gacctggctg 240
ctgcagctgc agaccgcaca tcgccgtcag ctgctgcgct acctgggccg ccatcagcgc 300
cgngagctcg ccctgcggct gctgctgcag gaaggactgc aggaccacac cgtatgtcgc 360
ctggtaccgg tgcagcggct ccacctgcct gatctgggtg cagcactgct gctgcagcgc 420
ctggcactgt ggcgagccgt agggcgtngc cgccgggctg cactgggtgcc tcaggaactc 480
gacgcactgg ccaggaacg ggctgccg 508

<210> 5244

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-091-Q1-N6-C3

<400> 5244

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cccctgcttg ttttggtggc tttatTTTTg ctccagttga gccacgggg ggcaacatac 120
acagccccgg gcgtttatTT tttgttcttg gtcgaccccc cccccctttt tcttgTTTaa 180
cggcctcacg ggcaaaaaac caccttttag ttggttcccc cggggcaagt gaagggtgctg 240
gtggcgatcat ccttggggta gctttacccc ttggggcact tccccTTgaa gtacctggag 300
tagttggtcg ggtggcaatc gttggcccc gagccacccc aaaaatactc gtcctTTTTg 360
aacacggggc accccttggt gcacacccc tccttcccca acttggcagg gcaacgcgcg 420
tttacgttca cggggcaacg cggg 444

<210> 5245

<211> 423

<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-091-Q1-N6-C4

<400> 5245

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atcgagataa atctcaacca atatattgat tatttcntag gaacacatgc cggatatgagg 60
gcaccattat cgagtacatc tcatatgtaa tctaaaagag gcacctcaa cgatggggttg 120
ctgcctcgac aagacaggat tcatcaaaga gaaccgggttg tatggcagca attggtgctg 180
ctgttaggaag gcagcgacca atggggttagc cactgccaat ggattaagta actgttgctg 240
ctgttgtagg tacgcaacag agttcgacat agttagttgg ttgaatggaa gcagctgttg 300
caagtaggca acagggtttg ccacagctag ctgagttaga gctgggtacaa tctgttgcaa 360
caattcttgt tgcaggtatg taggtgcatt ggccacagcg agcgggctag atgaaagcag 420
ttg 423
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<210> 5246
 <211> 520
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-091-Q1-N6-C6

<400> 5246

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atctagaaaa gtactttctt atttctggga agccacaaac atcagacaaa aactttatta 60
ttgaactata actcataaga aatctaaagn gggcaccacc aatgatgggt tgttggtaga 120
acgctgctgg gtttgctcaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
gggtgccagc gttaggcgca gctgctggt agaacggcaa caactgtggt tgtatcaaga 240
aggtagcagg gctcacacca gctagctggc tgaatggtag tagttgttgc tgctgtaa 300
aagcaggaga gttcaatgct gccagttggt tgaatggaag aaattgctgg gggtaggcag 360
caggtagctg gctgaatggt agttgttgtt gttgcaaata agaagcagag ttcaatgcag 420
ctagttggtt gaatggaaga aactgctgtt gctgagagta ggcagcaagg tttgctagca 480
caagttgttg tagttgttgt gccctgatgt tttgtgcaa 520
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<210> 5247

<211> 397
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-091-Q1-N6-D11
 <400> 5247

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gggaaagggc tttctttggg cccctggggc ggccccggga tattctgccc cgttccccta   60
ggggggcccc cttttccttt tgggggggggt ttttgaactt ggggttattt tgggcattgg  120
tttttccctt gggaaattgt ttttccctta aaatttcacc caaaattctg aacccttggg  180
gttaattttt aagcccgggg ggcccaatga gggggctaac ctccctttat tgttttgagc  240
tcactgacct gttttcccag gggaaacctt ttttgcccc ttcctttatg aatgggcccc  300
ccccctggg ggggccggtt tggtttttgg tccccgggg ggtttttttt tcaccattg  360
gaccggcaac acttgatttt ccttaaacc cttgccc                                397
  
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<210> 5248
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-091-Q1-N6-D2
 <400> 5248

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aaatttgga gtttgggttt aatcgggggg gggggggagg gtttctggag ggggtaccagt  120
ttttcgtttt gtgggtcggt ttagaggttg gggttattat gggatatagg gtttcctggg  180
tgaaattggt atttgtttag aattggaaat aatttaagag cctgaagctt atagggtaaa  240
gtctgggggt tctaattggg gaggttaagt aaattaattg cgggtgggggt agtggccggt  300
tttcagtggg gaaaaatggg gggccaggtg gattaatgaa ttgggaaacg tgcggggagg  360
gggggtttgc gttttggggg gtgggggggt ttttgtttta aacggtgaga aggggaaaaa  420
ttgattggct tttaacgttt gggctt                                446
  
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<210> 5249
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-091-Q1-N6-D3

<400> 5249

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ttttttggat tccccctaaa aagcccttta aaagggggcc cccccattt ttttttttg 120
gggggggggc ccttggtttt taaaaaagg ggggaaaaag gggacaaatt ttttttttt 180
aaaagggggg ggggggttta ccccaaacc gggggaaaaa ggggaaaact ttttttttt 240
aaaaaaaaa accccggttg ttacaacttg cggggcaaaa gggggaaaat ttgggggtga 300
aaaaaaaaa ggggggttaa agggggccca ttggtaaaaa aaaaaaatt tttttt 356

<210> 5250

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-091-Q1-N6-D7

<400> 5250

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gggccccctt tcgggtacct ttcatttga atctaaaaa gggcccccca acgatgggg 120
ggtgccttga caaggacagg gtttattaaa gagaaccggg tggttgggaa caattgttgc 180
ttcttttga agggagccac caatgggttt gccctgcca atggattaag taactgttgt 240
cccttttgta gggacccaac aaagtctgac ataattagtt ggttgaatgg aaacaacttt 300
tgcaagtagg caacagggtt tgccacaact tgctgagtta gagctgggtac aatttgttgc 360
aacaattttt gttgcagggt ttagggggca ttggccacag cggggggggt tgattaaaac 420
aatttttgct ttttta 436

<210> 5251

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-091-Q1-N6-D8

<400> 5251

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ctataactca taagcaatct aa

82

<210> 5252

<211> 464

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-091-Q1-N6-E1

<400> 5252

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gggggggggg gggggggagg nggggaaaaa aaaagggggg gggggggggg aaaaaaggag 120
aggggggaaa gagaagggg gggggagggg gggggggggg gggggggggg gggggggggg 180
gggggggggag gggggggggg gggggggggg agaggggggg gggggagagg gaggggggga 240
gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 300
gggggggggg gggggggggg gggggggggg ggggggggag ggggagagga agaggggggg 360
gggggggagga agggaagggg aggaggggaa agggggaggg gaaaaggggg gagagggagg 420
gggggggggg gggggggggg gggggggggg gggggggggg gggg 464

<210> 5253

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-091-Q1-N6-E10

<400> 5253

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acaggacgag ggtctccttg ccggacggcc tccagacgcc ggtgccggcc gccctggccg 120
cgccgccgcc cttgcgccag cactgcgtcg ccgggcgggtg gaagaagaag cgctccccgt 180
cggcgtcggc tccggatccc cctggtgcgg cggcggggag gaggtccac ggggtggaggc 240
gcgcgaggtc ggcgtcgggg atgacgccgg cggggagcgg gcaggccagc gccttgccggc 300
ggaggtagtg cagcagcagc tcctcgtcgg tggggcgga gcggaagccg atgggcaggc 360
ccgccacggg cgcgcccggc cgccggccct ccatcgccgg ccgacgggat cgaagcagga 420
ttgggtttcg t 431

<210> 5254
 <211> 233
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-091-Q1-N6-E11

<400> 5254

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 aaccggcccc cagggggggg gggggcaaat ttttttttaa aaaaaaggg ggggttacct 120
 tttaagcatt taaaagggg gcccccccat ggtgggggtg gggggaaaac cctttgggtt 180
 tttaaaaaaa aggggggggg agggggcaaa ttttttttct tttaaaaggg ggg 233

<210> 5255
 <211> 520
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-091-Q1-N6-E2

<400> 5255

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 tattgaacta taactcataa gaaatctaaa agagggcacc accaatgatg ggttggttgg 120
 agaacgctgc tgggtttgtc aaagcaagt ggttgaatgg cagcaattgt tgcagttgta 180
 agaggggtgcc agcgtaggc gcagcgtgct ggtagaacgg caacaactgt ggttgatatca 240
 agaaggtagc agggctcaca ccagctagct ggctgaatgg tagtagttgt tgctgctgta 300
 aataagcagg agagttcaat gctgccagtt ggttgaatgg aagaaattgc tgggggtagg 360
 cagcaggtag ctggctgaat ggtagttgtt gttgttgcaa ataagaagca gagttcaatg 420
 cagctagttg gttgaatgga agaaactgct gttgctgaga gtaggcagca aggtttgcta 480
 gcacaagttg ttgtagttgt tgtgccctga tgttttgtgc 520

<210> 5256
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-091-Q1-N6-E7

<400> 5256

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attatgggac cataacccaa aagccatcca aaagggggcc cccccaaga gggggggggg 120
ggagaacacc gggggggttg gcaaaacaag gggggtgaag ggcaccaatt ggtgcagttg 180
taagaggggg cccgcgttag gcatagcggg ccgggagaac ggcaacaacc ggtggtgggt 240
caaaaaggca gcaggggcca caacaactag ccggctgaaa gggagaagtt ggtgctgctg 300
taaaaaagcc gcaaagtcca atgccgctag gtgggtgaaa ggaaaaaat gctgggggga 360
ggcagcaacc agccggctga aagggaattg ggggtgcaaa aaagccgcag agttcaatgc 420
accccgttgg gtgaatggaa aaaaccgatg ttgctg 456

<210> 5257

<211> 500

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-091-Q1-N6-E8

<400> 5257

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actataactc ataagaaatc taaaagagg cccaccaat gatgggttgt tggtagaaca 120
ctgctaggtt tgtcaaagca agttggttga atggcaacaa ttgttgagct tgtaaaaggg 180
tgccagcggt aggcgcaacg tgctggtaaa acggcaacaa ctgtggttgt gtcaaaaagg 240
tagcagggtc cacaccaact agctggctga atggtagtag ttgttgctgc tgtaataag 300
caggaaagtt caatgctgcc agttggttga atggaaaaaa ttttgggggt aggcaacagg 360
tagctggctg aatggtagtt gttgttgttg caaataagaa acagagttca atgcaactag 420
ttggttgaat ggaaaaaact gctgttgctg aaagtaggca acaaggtttg ctagcacaag 480
ttgtttgtat tggtgtgccc 500

<210> 5258

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-091-Q1-N6-E9

<400> 5258

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gttaagtagc aacaaaaaga ttgggactcg gggtaacaaa actctctttc gcaagggggc 120
aagtatgcaa atttggcgcg aacttattta cctccctgag gagcttcgta actgccaaca 180
ttggaacctg ctgcccacaa tccataagct ggaggtcgcg caaccaaccc atagggcgag 240
gaccctgcc caacggtgaa aggaactgc ccctgtgcta aactgtagga agatggtagc 300
tgtgtgtgcc catacccaaa tggggcctgc gtttgtccat atgatggttg cgctgagct 360
gaaccataag gaccactgc tgctgctgct gctgccccat aagatgtgtt tgaccc 416

<210> 5259

<211> 278

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-091-Q1-N6-F1

<400> 5259

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gacaaagcaa ggnnggagaa aggcagcaaa agaagcaggg gggagagggg gccagcgaag 120
ggcgcagcgg gcaggaagaa cggaacaac ggaggagggg acaagaaggg agcagggaac 180
acaccagcaa gccggcagaa aggcagaaga agaaggcgca gaaaaaagc aggagagggc 240
aaagcagaaa gaggggagaa aggaagaaaa gggagggg 278

<210> 5260

<211> 252

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-091-Q1-N6-F3

<400> 5260

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atgtctttct tttctggga gcccaaactc agcaaaaact ttattattga actacaaccc 120
acattggtgg ggnntntttt ngntttttta tgagttngt tnatnatnaa tttggggggg 180

gggggggatt gttgggttgt agataattaa atatgtaagt tgttggttgt atgggggtag 240
attggattat gt 252

<210> 5261
<211> 496
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-091-Q1-N6-F4

<400> 5261

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ggttgcttaa aaggcagctt atttaaaagt cgtcattctt cttcttagcc atgtgcttag 180
ccagtttttt cttctgttga agcctttttt ggggcttttt ggggcttttc ttttccttat 240
gagaattagg ggggaatttt attgccttga ccgccttatt gtgcattttg aggcaaaacg 300
caatcctgga gttgaatgca atttgtggct tatttgtaga gtagacatta ccggtttcct 360
ttgataccat ccagccattt gcatgatcta tgggtggcgtt aattgcgccca tcttttatgg 420
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ttagcaatgt cagcaa 496

<210> 5262
<211> 518
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-091-Q1-N6-F8

<400> 5262

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agctctttat cgggtccacc accaatcaca aatgccaggc tacaatggaa gagagtaacc 180
gcggaggtag ttggagtcga ccttcgattc acggaccagt gccactcgtc cagttctggc 240
gacctcgcag atgccatatg gctctaataa cctttgtagt gcaaccatct tgtcaagatc 300
tccagtaagc tgaagggtta ctgtatggtc agaaacgtca ataggttttg ctcggaagat 360

ttcagcaata tctagaatth cctccgagc agcagtgttt acagaaacct taataagcat 420
cagctccctt tcagcaaaag gtgagtgggt aatgtcatga acttcatgca catcaataag 480
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<210> 5263

<211> 486

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-091-Q1-N6-G10

<400> 5263

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acccccagct cattttcttc cgtcagcagc tgggtgtcgag catggcctct ggaagcggga 180
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tccacctccc gaaccgagcg cgtccagtcg caccagcagc tgcggtagtc ggactgatct 360
gaggggtcga gccgccgcgc ccagctcccg ccgcccacgc gcgaatccgg ggcattccggc 420
gcttccctcc ttgatcatcc ttaccacctn cgcgaccgag gcgcccggcca ccttccccgc 480
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<210> 5264

<211> 580

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-091-Q1-N6-G11

<400> 5264

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gaagccacc agcgggatgt tccggtccac cgggagcccg acctccgct gcagcgctc 120
cttgttcagc gccttggcct ccaggccgtc gacacgtcgt acttcaactgc gatgtactgg 180
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aggcgcatga tgttgtcgag ctgcgagccc ctggcgatgc cggagatgag ctcctcggcg 300
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ttgtggatgc agaaagcggg ctttgcgtcc ctgtagatgc cgtgggactg gtagttgctc 540
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<210> 5265

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-091-Q1-N6-G12

<400> 5265

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gtggngggccg gggggggggg gggggnnncc nggggcggng gggggggggg gggggggggg 180
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gggggggggg gggggggggg gggggggggg gggggggggg gggggggcag gangaggagg 300
gagagggggg ggagaaagag ggaagggggg ggggggggga gggggagggg ganggaaaag 360
gggggggggg gggggcagng gaagtgggg agaggggggag gggggggggg gagngggggg 420
nggggggggn ggggggggag agag 444

<210> 5266

<211> 486

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-091-Q1-N6-G5

<400> 5266

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gctgctgcaa taaggtggtg ggattcgaca aagcaagttg gttaaattggc agcaattggt 180
 gttgttgaaa gaaggcgaca ttgtttgccca catcctgtgg gtagaatggt agcaactggt 240
 gctgatgcaa gaaggcggtta atgtttccca caacctgtgg gtaaaatggc agcaattggt 300
 gttgttggtg caagaaagca gcaatgtttg ccacaacttg tatatggaat ggaagcaact 360
 gttgctgcag taagaaggca gcatggctcc tgacaagttg gttgaatggt agtagctggt 420
 gtgcctgcaa gtaagcagca gggttcaccc cagctagttg attgaatgga agaaattggt 480
 gttgct 486

<210> 5267

<211> 525

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-091-Q1-N6-G7

<400> 5267

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 gagccctct catatgcac aaatccgcat ctgttgata cccgtatcag cagcaaacag 180
 ctcaattggg caatataaag ctccctcttc cggaatggc agattggagg ttccttcctt 240
 accaaaacaa atcgtggaag ccctaacatc ccagttcta catgatcgat ggaatagagt 300
 catttttata tgagaagaat gacaggtttc gaaatgcgtc gaggtatatt gccattagac 360
 ggttccaact attttgactg tccctataa gtatgtcatc ggcttcgtat ctcacagacg 420
 gtatgtccaa gtccagtggc ccgagtgaat caggccaata tatgtcagct aaagattgat 480
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<210> 5268

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-091-Q1-N6-G8

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 ggggccccaa gagaggcacc ctaaacaaaa ctttttaagt aacaacgggg taaccctcc 180
 ggggccttac aaaaaaattc actttttccc aagttagggg tccccgggtc cttttcaaaa 240
 accaaagaaa accaggctta ggggcccctt ctttttaaaa gggttcaaag ttttggtttt 300
 tgattggcaa aggggggaaat ttcccagttc ctgaaccaat cccccctta aaataagccg 360
 gggggggaaa tgcccaatg cttaccccc caaatgcccg gggagggggg atttttgggt 420
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<210> 5269

<211> 536

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-091-Q1-N6-G9

<400> 5269

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 tatgacttgg atgcaagagc ccaccgactt ccctgtagac attgcctctg caagctgcga 180
 tctagctttt tcatggcgac gcagtatgag aacagtattc agcacagccc atctcacctg 240
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 gtcggctaata cctccttctg cacgtccata cagaagatac tctgctgcaa ctccggctag 360
 tgctatacac gagaacttgt taaccatcgt ggcagatagc ttgcctgtat tgatctcttc 420
 aaggaactca tagtccacaa aagctgctcc agcttgaca ttaagcgatc cttgattcat 480
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<210> 5270

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-091-Q1-N6-H10

<400> 5270

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 gggggggggg gggggggggg gggggggngg gggggggggg gggggggggg gggggggggg 240
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<210> 5271
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-091-Q1-N6-H2

 <400> 5271

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 gggggggggg ggnngggggg gggggggggg gggggggggg gggggggggg gggggggggg 180
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 gggggggggg gggggggggg gggggggagg ggggggggga gaaggaaggg gggggaggag 360
 gggggggggg 370

<210> 5272
 <211> 519
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-091-Q1-N6-H6

 <400> 5272

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nnnnnnnnnng ggnnnnntttt ttttgggggg gggggggggg gggntntnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnngt gggggggggg ngggnnngnn gggggggggg 240
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<210> 5273
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-091-Q1-N6-H8

 <400> 5273

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 gggggggggg gtgggggggg ggggggggga aggggnnggg gggagagg 348

<210> 5274
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-091-Q1-N6-H9

 <400> 5274

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 atagaactgg ttgtntggna gnaattgttg ctgtttagg aaggcagtga ccaatgggtt 180

aggcacgggt aggggggttaa gggactgggg ggcctggcgn aggtgcgcag ntggggggcga 240
catggggaga tgggggggatg gaaggggttg gtgggagagg ggagaagggt gtggcgccgc 300
tgggtgggggt gaaaactgga gcaattgggg aagcgggggg g 341

<210> 5275

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 5275

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gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 180
gggggggggg gggnnngng gngggggngn gggggggggg gngggggggg gggggnnngg 240
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gggggnnggg gggggggggg gggggggggg gngngggngg gngggggggg gggggggggg 360
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<210> 5276

<211> 468

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-092-Q1-N6-A12

<400> 5276

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<210> 5277
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-092-Q1-N6-A2
 <400> 5277

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<210> 5278
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-092-Q1-N6-A3
 <400> 5278

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<210> 5279
 <211> 568
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-092-Q1-N6-A4
 <400> 5279

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<210> 5280
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-092-Q1-N6-A7
 <400> 5280

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<210> 5281
 <211> 577
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-092-Q1-N6-A8

<400> 5281

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<210> 5282
 <211> 563
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-B10

<400> 5282

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<210> 5283
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 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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<210> 5284
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-092-Q1-N6-B12
 <400> 5284

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 gggggggggg gggggggg 77

<210> 5285
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-B2

<400> 5285

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tgatgtgttg ttggaagaag gctggggggg tggacaaagc aggtgtggaa aagggcatca 120
tctgttgcag ttgaaagagg gttgcggggg tagccaaaaa ctgggtggga aaaggaagca 180
cttgatggtg ggaaaaaaag ggaggggggg tgggtgtagt taggtggcca aatggaataa 240
gtttttggtg tggaaaatag gaaaggggta taatggggac aattggttaa agggagaaa 299

<210> 5286
<211> 521
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-B7

<400> 5286

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aactttatta ttgaactata actcataagc aatctaaaag agggcaccac caatgatggg 120
ttgttggtag aacactgctg ggtttgtcaa agcaagttgg tcgaatggca gcaattgttg 180
cagttgtaag aggggtgcca cgttaggcgc agtgtgcagg tagaacggca acaaattgtg 240
ctgtgtcaag aaggcagcag ggctcacagc agctagctgg ctgaatggta gtagttgttg 300
ttgttgtaca taagcatgag agttcaatgc tgccagttgg ttgaatggaa gaaattgccg 360
ggggtaggca gcagctagct ggctgaatgg tagtagttgt tgttgctgca aataagcagc 420
agagttcaat gcagctagtt ggttgaatgg cagaaactgt tgttgctgaa agtaggcagc 480
aaggtttgct agcacgagtt gttgtagttg ttgggccctg a 521

<210> 5287
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-B8

<400> 5287

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ggcccccccc ctccccaaaa agcttttttg ggggggcccc cctttggggg ccctcggggg 120
gggggcccc ccttgggcgg tttgtggggg gggggcccggt gtttttcaa acgggggggg 180
cgcggggggc cccctggggg ggttttttag gggggggggg gggcccccc cccccggggg 240
gggagggggg ccccggggg gg 262

<210> 5288

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-C3

<400> 5288

cttagaaaaa tttatttgtc aaatatattt aagggttagg gtagtgtagt ttccaatatt 60
catcaccaag gatgggttta gcgaaccgca tttttogaat gggacaaagg gggatccata 120
agggcgggag atattacgta gcacaggttt tcaac 155

<210> 5289

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-C8

<400> 5289

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atttttactc aatcatcgcc gctaaatgac tcaactagct tgctagccag cgggttttct 120
acagcacata gtttttttag tgggggacac ccccggcagc agcgtagggg catggagttg 180
gctgctgcag gccccacatt gccgtcagtt gctgcgcttt ttgggccgcc aacagccccg 240
cgacctggcc gcttttcggt tgttgcttca ggatggactg gaggaccaa cggaaaatcg 300
cctggtaccg gtgc 314

<210> 5290

<211> 561

<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-092-Q1-N6-C9
<400> 5290

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gtataactca taagcaatct aaaagaggca ccaccaatga tgggttggtg gtagaacgct 120
gttgggtttg tcaaagcaag ttggttgaat ggcagcaatt gttgcagttg taagaggggtg 180
ccagcgttag gcgcagcgtg caggtagaac ggcaacaact gttgttggtg caagaaggca 240
acagggctca catcagctag ctggctgaat ggtggtagct gttgctgttg taaataagca 300
gcagagttca atgctgccag ttggttgaat ggaagaaatt gctgggggta ggcagcagct 360
agctgactga atggtagttg ttgttgcaaa taagcagcag agttcaatgc agccagttgg 420
ttgaatggaa gaaactgctg ttgctgagag taggcagcaa ggtttcctag cacaagttgt 480
tgtagtttgt tgtgcccttt gatgttttgt gccacaaaat gccaccaaag gtaactgctg 540
taatagggct gacgggttgt t 561

<210> 5291
<211> 490
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-092-Q1-N6-D1
<400> 5291

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nggnnaaaaa aaaaaagaag ggggggnngnn ngngaagggg gggggggggg gggggggggg 180
gggggggggg gggggggggg gggggggagg gggggggggg gggggggggg gggggggggg 240
gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 300
gggggagggg gggggggggg gggggggggg gggggggggg aggggagggg gggggggggg 360
gggggggggg gggggggggg ggggaggggg gagagggaga gggggaggag agggggaggg 420
aggggagggg ggggaggggg agggaggggg ggggaggggg ggaggggggg gggggggggg 480

gagggggggg

490

<210> 5292

<211> 123

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-D10

<400> 5292

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aagtataact cataagcaat ctaaaagagg caccaccaat gatgggttgt tggtagaacg 120

ctg 123

<210> 5293

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-D3

<400> 5293

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ggccattggg ccgcgcccc cccgggtttt tttttttagg ggggggttatt agcctagcag 120

tttttttttt ttaaatgctt cccggcagca cgtggggggg attttttttg ggggttgggt 180

tttggtgac tgaatgactg ggggggtggg ctttttgact gttggggtcg acgggtgggtg 240

ttatatattt tttgattctt tttgggccgt gaaaaaaggc gggggggggc gtttcgggtgc 300

cctggaaggg ggggtttttg ggg 323

<210> 5294

<211> 466

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-092-Q1-N6-D5

<400> 5294

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cgccgccgga gaagatgctg cactcctggg gctccgacag ccggcacatc atcggcaacc 180
ccgcggcgta ctcccgggcc ttcgtaagcc tcacgcggcc gatccttggc ccggtggtgc 240
cgggacgaca cggtggatac atctgcgttt ggtatccctc tctgcccgg ctgcaggggt 300
agtagtagcc cccctgtcct cctcctcctc cctgcggcgg cggctgctgc tgccgcccc 360
atggccacca gcctttctcc agaggcggca tggcctcctc gtagccctg accatgctcc 420
ggatggcggc ncagcggcac tcgcggctca cgtcctggag ctgctg 466

<210> 5295

<211> 502

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-D6

<400> 5295

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cgtcaacagc aagagggtgt tgcttcgaag agtggaagca aacaagagta caaccacatc 180
atcagtatat cataagtggc ttctcaaata tcttcctata aaagccaagc aggaaataaa 240
tagtgtcaaa taaccaatga ttatggctat cgtgcgtctg cttatgaacc gcagcatgca 300
gatcgtggg cagctggtgc ctcggaaccc tggctctggct tggttaatttt gattgccttg 360
tcctctggct ttgaatcagt ctctgcaagc ctctgcttga tgtcacgtgc gatggagaag 420
aacacttgct ccacgttcag gtttgtcttg gcaactgctt caaaaaactt gatcccatc 480
tcacagcaa gtgcttgctc tt 502

<210> 5296

<211> 517

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-D7

<400> 5296

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gcaccattat cgagtacatc tcatatgtaa tctaaaagag gcacctccaa cgatggggtg 120

ctgccacaac aaggcagggg tcatcaaaga gaactgggtg tatggcagca attggtgctg 180
ctgtaggaag gcagcgacca atgggttagc caccgctagt ggattaagta actggtgctg 240
ctgttgtagg tacgcagcag agttcgacac agtcagttgg ttgaatggaa gcagctggtg 300
caagtaggca gcagggtttg ccacagctag ctgagtcaga gctggtacaa tctgttgtag 360
caactgttgt tgcaggtatg taggtgcatt aaccacagcg agagggctag atgaaatcag 420
ttgttgctgt ttaggttagg cggcaggggt caccatggct agttgactga gcgctggtag 480
aaactgttgc aattgttgtt gttggttggg atgcaac 517

<210> 5297

<211> 499

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-D9

<400> 5297

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acgcctgcaa ataaaatgtt cccagcgatc acgaaacccg cagtgcctaa tacatgtcca 120
tgtgtatggc cccatttgga cccagcagct cataatcctg cggcggcggt gtagatccgg 180
aggcggaggt cggcggcatg gatcccatcg cgtctggat gagctccatg gccccgcgc 240
aatgcgtggc tgctgctact cggttcatct ctgtggcgct cagagttcca ccgacgacca 300
tggtatgcagg ctcttgatga gcttgtagtc gcaagaaacc gttgccgacc gaagcatcgt 360
cgtctgcggc tgtggcgag aagtagccga cgatgctgtc tcggataggc ggcgggcgga 420
ctggagcgtc ggagctgggg gtcggcgccg agatgggcat ggacgacggc actgatgagc 480
tcatctctat caccgctt 499

<210> 5298

<211> 549

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-092-Q1-N6-E2

<400> 5298

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 ttttaaaaaa aaaaaaaaaag attttttttt ttgttttgan aggggggaaan annnggggggn 120
 nnnnnnnnnn naannannaa aaaaaaat tttttttttt tgggtggggg gggggggggg 180
 ggaggggggg gggggggggg gggggggggg gggggggagt gggggggggg ggtgttgggg 240
 ggggggggtg gggggggggg gggggtgggg gggggggggg gggggggggg gggggggggg 300
 ggggggggtg gggggggggg ggggggtggg ggtgtggggg ggggggggtg ggggggtggg 360
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 gggggtgggg gtgggggggg gggggggggg ggtggggggg gtgggtgggt ggggtgggtg 480
 tgttgggggg tgtgcggggg gggggggggg gggggagggt ggggggggtg gtgggggggg 540
 tgggggggt 549

<210> 5299

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-E4

<400> 5299

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 ggggaaaaaa aattgggtgt ttaaaaaaaaa aaagtgggaa ggagggataa atttttaatt 180
 tgaaaaaggg 190

<210> 5300

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-E5

<400> 5300

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 ggtttacctt aaaaccaatt aaaaagagg gccccccaa aggggggttt gggggaaaac 120
 cccttggggg ttttaaaaaa aagtggttta atggggaaaa atttttgcat tttaaaaggg 180

ggcccccttt tg

192

<210> 5301

<211> 571

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-092-Q1-N6-E7

<400> 5301

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cgggatgcca ctgtccaggc gactaggaga cgcagcggag cgagtgcagg gacgccgagg 180
tgtccatgga cgcggcgtca tacatgcagc ggggtctcgt cgctcgatg ccgtagtcca 240
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acaaccctga gctgaagagg aagcgcgccga aggtggcgaa gaagatcctg gactggaggg 420
ccgggtgcac gaagtagacg gcgcgcagcc ttctcctggc cgcggccggc agcgtctcgt 480
acgcgccgcg gatcgcaccg acgccggggn aagttgtggc cgcgatccac ccgggagtg 540
atgtacacga acacgaactc gcggtcccc g 571

<210> 5302

<211> 484

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-E8

<400> 5302

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ggtagaacgc tgctgggttt gtcaaagcaa gttggttgaa tggcagcaat tgttgcagtt 180
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tcaagaaggt agcagggctc acaccagcta gctggctgaa tggtagtagt tgttgctgct 300
gtaaataagc aggagagttc aatgctgcc gttggttgaa tggaagaaat tgctgggggt 360

aggcagcagg tagctggctg aatggtagtt gttgttggtt caaataagaa gcagagttca 420
atgcagctag ttggttgaat ggaagaaact gctgttgctg agagtaggca gcaaggtttg 480
ctag 484

<210> 5303
<211> 117
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-092-Q1-N6-E9
<400> 5303

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tggggggggg ggggggcagg ggggaaggga aaatgggggg ggcgggggttc tgggggg 117

<210> 5304
<211> 695
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-092-Q1-N6-F1
<400> 5304

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nggggggggg gggggnnggg ggggnnnnnn nnnngggggg ngnnnnnnng ggggggcggg 120
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ggggagaggg gggagggggg gggggggggg gggagggggg gggggggggg gggggagggg 660

nggagagggggg gggggggggggg gggggagagg gggggg

695

<210> 5305

<211> 579

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-F10

<400> 5305

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ctgccacaac aaggcagggt tcatcaaaga gaactgggttg tatggcagca attgttgctg 180
ctgttaggaag gcagcgacca atggggttagc caccgctagt ggattaagta actgttgctg 240
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aaactgttgc aattgttgtt gttgttggtg tgcaactatg tttgccagag caagtgggtt 540
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<210> 5306

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-F11

<400> 5306

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ggggggggcc ttttttggtt aacccccttt tttgggttta acgggtgggg ggacccaatt 120
ttttatttgg aaacccccct aatgtctttg ggggtggagg ggtttttttg ggggggttggg 180
ggggccaagc cccccatttg tgggggggtt tgggcttttt tcaaaattgc cccccctt 240
tggggggcctt ggtgggaacc ccaaaacca aagggggggg gggggggccc cccccggtt 300
ttgggttgaa ccttttttta aattgcttgg ggaatttttt gggggtaa at ttgccc 359

<210> 5307
 <211> 239
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-092-Q1-N6-F12

<400> 5307

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 gaagggggag gggggggggg agggaggggg gggagggggg gggggagggg gggggggggg 180
 ggggtggggg agggaaagaa ggggaggggg gggggagggg agatgggggg gggggggggg 239

<210> 5308
 <211> 583
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-092-Q1-N6-F3

<400> 5308

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 catcacaaat attgttcaaa aacaggtgca tttgacaact aaaacaaaat aaaatattga 180
 agtcgctgct attacagtag acgaattgat gattaaaccg gcagatgaaa cagtatcacc 240
 aacagccaaa aatttttagag cttgtcctca aactcagaaa gaggggtcat ctgttccttg 300
 agacccttcc tcttgcggat atccagcacc agctgagcag cctgggagcc ggcctccaaa 360
 ggatctgagc ccatcatgtc ccaatgggtc aagacacact gggggaacgc ctgaccagag 420
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 atgttgtaga gcgggggtacc cggcctctgc atctcctcaa agaaatgacc tctcttctgg 540
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<210> 5309
 <211> 577
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-092-Q1-N6-F7

<400> 5309

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caatctaaaa gagggcacca ccaatgatgt gttgttggtg ggaggctgct gggtttgtca 180
aagcaagttg gacaaagggc aacaattggt gtagttgtaa gagggttgct gggttagccg 240
caaactgctt gtagaaaggc agcaactggt gctgtgtcaa gaaggaagca cgacttgctg 300
cagctagctc gctaaatggc agtagtattt gctgctgcaa ataagcagcg gggttcagtg 360
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atggaagaaa ttgttgttgc tgagagtagg gagaaagggt tgccaaagct acttggttga 540
tcacaagtag caacgagttg ctgcagctgt tgtgccc 577

<210> 5310

<211> 574

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-G10

<400> 5310

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agatttccca aatatcatga atcagtagta gggcggaatg gcagcggaga cgccacaggg 180
gttggtgcgg tagctgggca gctggtactg gtagagtcca cccatggccg gcatgttctg 240
cgccatcatc atggccatgg ggttgagacc ctgggctgcc agcagctgct gctgctgctg 300
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ctgttgccgg agcggctgga acatggcgct cggctgccc caccggcggt agtagggcgc 480
cgccgccagc gggctgcaact ggggctgct caagtactcc gcgtaggggt acagcccgcc 540

ggcgcccatc atcgtcgtca ggccggcgcc agcg

574

<210> 5311

<211> 180

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-092-Q1-N6-G2

<400> 5311

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catacaatac atacatgttt acgaacgcca aaggattaga gatgacttgg aagttaggga 120

gcggtaatta attggttggg gggggggaat gnggtagtta agttattagt aattgggtta 180

<210> 5312

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-G4

<400> 5312

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aattgtggga tttgaaaggg gggggccaggg ttgggggtttg ggggggggga gaacggcaac 180

atctgtggtt gggtaaaaaa gggggagggg gtaaaaaaaa ttagctggct aaagggaaga 240

agttgttggg gttgtaataa agcgacagaa ttaaaggctg ttagtgggtg gaagggaaaa 300

aatgggtggg ggggggggaa aacttggggg gtgaagggg 339

<210> 5313

<211> 527

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-G7

<400> 5313

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actattgaac agcgcaaacg atacagcagt aggtttaatt attcccgaga ctgaccacta 180
 accatggctg gttttgcatt gaacattatt accccgcacg tacttcagaa gtaaggtctg 240
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 gattcattca agttcagagc ttcttgga gcttcttggt ccagaaattc aacataagca 480
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<210> 5314

<211> 522

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-G8

<400> 5314

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 tgttgttgtt gcaaataaga agcagagttc aatgaacctt gttggttgaa tggaagaaac 420
 tgctgttgct gaaagtaggc agcaaggttt gctagcacia gttgtttag ttgttggtcc 480
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<210> 5315

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 5315

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gggggggggg	gggggggggg	gggggggggg	gggggggggg	gggggggggg	gggggggggg	180
gggggggggg	gggggggggg	gggggggggg	gggggggggg	gggggggggg	gggggggggg	240
ggggggggtg	ggggnggggg	gggggggggg	gggggggggg	ggggggggtg	gggggggnng	300
gggggggggg	gggggggggg	gggggggggg	gggggggggg	gggggggggg	gggggggggg	360
gggggggggg	gggggggggg	nggggggggg	gggggggggg	ggggnggggg	ggtggggggg	420
ggggggggtg	gggggggggg	gggggggggg				449

<210> 5316
 <211> 717
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-092-Q1-N6-H2

 <400> 5316

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ngnnnnnnnn	nnnggggggg	gggggggggg	ggnnnnnnnn	nnnggggggg	nggggggggg	180
gggngggggg	gggggggggg	nnnggggggg	ggnggggggn	gggngggggg	gggggggggg	240
gggggggggg	gggggggggg	gggggggggg	gggggggggg	gggggggggg	gggggggggg	300
gggngggggg	gggngggggg	gggggggggg	gggngngngn	gggggggggg	ggggggnggg	360
gggggggggg	gnnggggggg	gggggngggg	gggggngggg	gggggggggg	gggggggggg	420
gggggggngg	gggggggggg	ggnggngggg	gggggngggg	gggggngggg	gggggggggg	480
gggggggggg	gggggggggg	gggngggggg	gggggggggg	ggggggnggg	gggggggggg	540
gggggggggg	ggnggngggg	gngggggggg	gggggggggg	gggggggggg	gggggagggg	600
gggggggngg	gggggggggg	gggggagagg	gggggagagg	gggggggggg	gagggggggg	660
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<210> 5317
 <211> 322

<212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-092-Q1-N6-H4

<400> 5317

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gagggggggg ggggggggcg ggggaggggg gggggagagg gggggggggg ggggnngggg 180
gggggggagg gggggggggg ggggggtagg aagggggggg agaggagggg ggtggggggg 240
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ggaggaaagg aggagggggg gg                                     322
  
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<210> 5318
 <211> 394
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-092-Q1-N6-H5

<400> 5318

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<210> 5319
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-092-Q1-N6-H6

<400> 5319

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gggggggggg gggggggggg gggggggggg ggttgtggng tgggntnggg ggggtggggg 180
gggggggggg gggggtgggg gggggggggg gggggggggg ggggtggggg gggggggggg 240
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gggctggggg ggggttgggg gggggngggg gggnttggtt cggctgcggc gcttttcnng 360
gggggggagg gggtcggggg gggggggggg ggtggngcga ggggttcggg ggggtgggtg 420
gcgggggggg ggggggggca gg 442

<210> 5320

<211> 486

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-092-Q1-N6-H7

<400> 5320

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aaagggtgaa gaaacataaa taagtgaatc ttgaccaccc ctaaatagtaa tcaccatcac 120
aaaggctagg acttggccct aacgcaacct gcaacacagc acacgtttta caaggaatcg 180
ttgctatcta tgaagcaatg gtacaacaga ccggagcacc aaggaaacta tgggaagccc 240
cagggaaact gttgacgaat cctgtcattt acagagtcgc aaacaagcgt tcttccttcc 300
cgcccgctct cagatgctcg ctttccttgc cactacttcc ttttcccgcc gccaccgagg 360
gacagaagct tcaggctgcg gtggagtggc ttgtcgcggg cgcctatcgc gactgccgcc 420
cgtgagaggg agtagccctt gcctcgcctg gcgatgggtt gaccctttgg gtgcttgatg 480
ggcgac 486

<210> 5321

<211> 490

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-K6-A11

<400> 5321

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ttcccgcaat gctcgcaagc tccatagct tcccttcttc ccccgtagct ctcaccagcg 180
gtgtcttcgg tatgtgaaaa cccaattctt caaccctaca ggatccaaca ggcaatcgca 240
gctggcatct tacctttatc acccttggc ctccaacaat catcagccct attacaacag 300
ttacctttgg tgcatttatt ggcacaaaac atcagggcac aacaactaca acaacttgtg 360
ctagcaaacc ttgctgccta ctctcagcaa cagcagtttc ttccattcaa ccaactaggt 420
tcattgaact ctgcttctta ttgcaacaa acacaactac cattcagcca gctacctgct 480
gcctaccccc 490

<210> 5322

<211> 622

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-K6-A12

<400> 5322

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atgtgttgct aacgcgacca ttttctctca atactcaca gctcctatag ctgcccttct 180
tccccatac ctccatcaa tgaccgctt agtatgtgaa aaccagccc ttcaacccta 240
caggatccag caagcaatcg caacaagcaa ctaccttta tcacacctgt tctttcaaca 300
atcgccagcc ctatctttgg tgcagtcatt ggtacaaacc atcagggcag aacagttgca 360
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gcaacaacaa tttcttccat tcaaccaact gtctatactg aacctgctg cttatttgca 480
gcaacaacaa ctactaccat tcagccagct agctactgcc tactctcagc agcaacaatt 540
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<210> 5323
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-108-Q1-K6-A2

<400> 5323

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 tttatgccag tgctcagtca actatctttt gtgaaccctg ccgtctacct acatctactt 180
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<210> 5324
 <211> 592
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-108-Q1-K6-A3

<400> 5324

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 ccaaatttgc ccggaccgct tcacttaagt cggagattat tatttcagac agaactcctg 180
 aggattttgc cacatggcag cgcattatac gtgtagatgc tattcgagca aatacagaat 240
 gggttctgtt tgcccgtaac caggctgaag tctctaaaga gaaagcgctg cagtctgcaa 300
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 gaatgagtga nctcttgnca ccaataattg cagtcattga ggaagatcat gaagcgttct 480
 ggtgctttgt gggtttcatg aggaaagcca gacacaactt caggcttgac gaggttggga 540
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<210> 5325
 <211> 559
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-108-Q1-K6-A4

<400> 5325

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atgctcacia caataccttt ttttttttac agccgcgaga tttgaatacc caactgggca 180
atcctacagg cnacaagtgg ccatcgcagc aagcatctta cggtcgtag cattgaccgt 240
ccaacaacca tatgccttat tgcaacaacc atccttaatg aatctatatg tccaaagaat 300
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ccttgctgct taccttttagc aacaacacnt tcttccatth aatcaactaa ctgggggtgaa 420
ccctgctgct tactngcagg cacaacagct actaccattc aaccaacttg ttaggagccc 480
tgctgccttc ttactgcagc aacagcttgc tttcattcca tcgacaagtt gggggcaaac 540
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<210> 5326

<211> 589

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-K6-A6

<400> 5326

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tgcccagcca caccgacgcg cactgcatct gctacctggc ggaaggcgag ggagtgggtga 240
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ccaagatcct ccataccate tccgtgcctg gcgagttcca gttcttcttc ggcccccttct 420
ttaggaaccc ggaatcgttc ctgtcgagct tcagcaagag catccagaga gctgcataca 480
agacctcgag cgaccgtctg gagaggctgt tcgggaggca tgggcaggaa caggggatca 540

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589

<210> 5327

<211> 520

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-K6-B4

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atgcccctac gctgctgccg gcggtgtnc cactgaaga aactatgtgc tgtagtatag 420
ccgttggtta gctagctagt tgagncattt agcggcgatg attgagtaat aatgngtcac 480
gcataccatc ggggtggcagt gtcagtgtga gcattgacct 520

<210> 5328

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-K6-B5

<400> 5328

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cccgtcgcgt gtggccaatg cacctacata cctgcaacaa gaattgttgc aacagattgt 180
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taatcnattg gtatttttta acccattggn cgctggcttc ctacagcagc aacaattgct 360

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<210> 5329

<211> 561

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-K6-B7

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ctcacaggct tgctgntgtt aatatggact gggatcatat taaggcagtt gacctgtata 480
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<210> 5330

<211> 489

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-K6-C10

<400> 5330 .

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gccctgctac cttcttgaca caaccacaat tgttgccgtt ctaccagcac gctgcgccta 240
acgctggcac cctcttataa ctgcaacaat tgctgccatt caaccaactt gctttgacaa 300
accaacagc attctaccaa caaccatca ttgggtgtgc cctcttttag atttcttatg 360

agttatagtt caataataaa gttttttgtc tgatgtttgt ggcttcccag aaataagaaa 420
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 ctatgggaa 489

<210> 5331
 <211> 583
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-108-Q1-K6-C11
 <400> 5331

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 tcttccccca tacctttcac cagcgggtgc ttcaatgtgt gaaaccccaa ttgttcaacc 180
 ctacaggatc caacaggcaa tcgcaacagg catcttacca ttatcacctt tgttctcca 240
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 ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct gcatactctc agcaacatca 360
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 accattcagc cagctagttg ctgctaccc ccagcaattt cttccattca accaactagc 480
 agcattgaac tctgctgctt atttacagca gcaacaacta ctaccattca gccagctagc 540
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<210> 5332
 <211> 586
 <212> DNA
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 <223> Clone ID: LIB3061-108-Q1-K6-C12
 <400> 5332

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gtgtcttcaa tgtgtgaaac cccaattggt caaccctaca tgatccaaca ggcaatcgca 240
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<210> 5333

<211> 241

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-K6-C2

<400> 5333

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tttttcccct tacctctcac cattctgtgt tttttcgnnt gtgttnnaacc ctnttcttca 180
accctacagg atctctcagg tctttgttgc nggcatctta cctntatctc ccttgttcct 240
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<210> 5334

<211> 579

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-K6-C4

<400> 5334

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tccacaatgc tcacaacaat acctctctcc ggtgacagcc gcgagatttg aatacccaac 180
tatacaatcc tacaggctac aagaggccat cgcagcaagc atcttacggt cgttagcatt 240

gaccgtccaa caaccatatg ccttattgca acaaccatcc ttaatgaatc tatatctcca 300
aagaatcgca gcacaacaac tacaacaaca gttgcttcca acaatcaatc aagtagttgc 360
agcgaacctt gctgcttacc tccagcaaca acaatttctt ccattcaatc aactagctgg 420
ggtgaaccct gctgcttact tgcaggcaca acagctacta ccattcaacc aacttgtcag 480
gagccctgct gccttcttac tgcagcaaca gntgcttcca ttccatctac aagttgnggc 540
aaacattgct gctttcttgc aacaacaaca acaattgct 579

<210> 5335

<211> 610

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-K6-D11

<400> 5335

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gcagctgctg ccattgttgt ctatgacatc acaaatccgg cctccttcac ccgtgccaa 120
aaatgggttc aagaacttca agctcaagga aatcagaatt ccatagtggc tcttgctgga 180
aacaaggggtg gtgtgctaga tgcgaggcag gtgccagcag aggaagcaaa ggcgtatgct 240
caggagaatg ggctcttctt catggagaca tctgctaaaa ctgcaatcaa tgtgaatgac 300
atattttatg agattgcaaa gaaattgctt caagggcaac aagctccaag cccacaggct 360
ggaatgggtc tgaatcagag accaaatgag aggacggtca gcagttcttc atgctgctct 420
tgagctgtgt ttcaacctcg tagtgccgtt atcaaagtga tcagaggagg tttatggaaa 480
atatgccatg tcgcctgtgt ggctgccttt caggctgacg tgctcccatt ctgctcctca 540
tttcctttca catgttcgtc atgtaaatgc caatactaaa gtgtcactgc atgggcagaa 600
gtgttaccaa 610

<210> 5336

<211> 588

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-K6-D2

<400> 5336

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 tcccttcttc ccccatacct tccatcaatg atagcttcag tatgtgaaaa ccagctctt 180
 cagccctata ggctccaaca agcaatcgca gcaagcaaca tacctttatc acccttggtg 240
 tttcaacaat cgccagccct atctttggcg cagtcattgg taaaaacct cagggcacag 300
 cagctgcagc aactcgtgct acctgtgatc aaccaagtag ctctggcaaa ctttctccc 360
 tactctcagc aacaacaatt tcttccattc aaccaactgt ctacactgaa cctgctgct 420
 tatttgagc aacaactatt accattcagc cagctagcta ctgcctactc tcagcaacaa 480
 caacttcttc catttaacca attggcgcca ctgaaccccg ctgcttatnt gcagcagcaa 540
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<210> 5337
 <211> 585
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-108-Q1-K6-D3

 <400> 5337

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 ttgctcctag tgccattatt cttttttttt cccaccagtt acttcaatgg gcttgggaca 180
 cctagctgtg caagccaaca tgcaacaaca agcgcttgcg gcgagcgtct nacaacaacc 240
 aattgnccaa ttgcaacaac aatccttgcc acatctaaca atacaagcca tnacaacgca 300
 acagcaacaa cagntcctac cagcactgag ccacctagcc atggtgaacc ctgccgcta 360
 cttgcaagag cagctgtttg catccaaccc acttgctctg gcgaacgtag ttgcaaaccn 420
 ncaacaacaa cagctacaac agttnttgcc aacgctcagt caactagcca tgggtgaacc 480
 tgccgcctac gtacaacaac aacaactgct ttcathtagc ccgntcgtg tgggcaatgc 540
 acctacatac ctgcaacaca attgttgcaa cagattgtac cagct 585

<210> 5338

<211> 574
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-K6-D6

<400> 5338

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cttcgcctcg ggacttgtct ggggactggc ctggactgga cttgactcga cttttccctt 120
ggctgttacc ctcgcaaccg cccccgctcg cgacctcgtc ctctcggcc gggctctccg 180
ttggaggctc gtcctcttcc ggtgccgtcg gggacggcgg agggctgagg aatgaggagt 240
cttcggagtc gtcttcgagg agcgcgagcg gcacggatgg cagcggcaag gggaaggggg 300
aggaggacga agcgaagcgg cgcgcgcggc aggtacgcaa ccgcgagagc gcgcacctgt 360
cgcggcagag gaagaagcag tacgtggagg agttagaggg taaggatgaag gccatgcagg 420
ccaccatcgc cgacctctcc gccaggatct cctgcgtcac cgccgagaac gccgctctca 480
aacagcagct ggggtggcgt gctggggccg cgccgccgcc gatgccgatg taccacacga 540
tgtattcttt gccgatgccg tggatgcacc catc 574

<210> 5339
<211> 593
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-K6-D8

<400> 5339

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ttcttcaacc ctacaggatc caacaggcaa tcgcagcagg catcttacct ttatcacctt 120
tgttctcca acaaccgtct ttttttttcc agcagttacc tttggtgcat ttgttggcac 180
aaaacatcaa ggcacaacaa ctacaacaac ttgtgctagg aaaccttgct gcctactctc 240
agcaacagca gtttcttcca ttcaaccaac tggctgcatt gaactctgct gcttatttgc 300
aacaacaact accattcagt cagctagctg ctgcctaccc ccagcaatct cttccattca 360
accaactggc agcattgaac tctgctgctt atttacaaca gcaacagcta ccaccattca 420
gccagctagc tgatgtgagc cctgttgctt tcttgacaca acaacagttg ttgccgttct 480

acctgcacgc tgcgcctaac gctggcaccc tcttacaact gcaacaattg ctgccattca 540
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<210> 5340
 <211> 617
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-108-Q1-K6-E10
 <400> 5340

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 ctgtggctgt ttctgtttac ctgacaaaat gagtgggtct gttcactggg gggtttcac 180
 tagtaaattg ccgaattggc tcttccaact atggatactt ttgtagaggg ataaaagtcc 240
 ttacttccag cagaatttca taatttttgg ttcagtagtt tgggagatat cgaattttta 300
 agttaaccat actgctgtct aaaacagatt cagtcagtta tcttgtcaga tgttttagaa 360
 cttgtagatg gcagaattta attatctatt gaatactgaa gttgtagagt attttgtgta 420
 gatactecta gagtatttgt ttgatatcac cgctgtttta attttaaaga tacaaaatta 480
 acaaacagcg ttgctgctgt atggcatgtg gttcaggggtg ggagtccttc cactgggtct 540
 tggtttcaag tgtaggagtg ttttgttgat tgatggcaaa tgtttgtgaa atatttgtac 600
 taagttttat gccact 617

<210> 5341
 <211> 602
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-108-Q1-K6-E11
 <400> 5341

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 tccagttccg acgccagcgc gcctcccgcg tccgccgcgc ctgacgaacg cagtgtagga 120
 ctgtgcaggt agagaggagg agggttcggc gagatgggga tgcgagataa gaagcggaac 180
 cagaagcgag tgctcgcgcg ccgtaccgcg gtaccgcgcc caggcgaggg caaggacttc 240

ctgccgctgg aaggaggccc cggtagaag ctccggaagg tgcagcagcc tgaagagccc 300
gaaaacacag ccacagtcgt ctacattggg catatcccc atggtttcta cgaggacgag 360
atgaaaggt tctttaagca gtttggggat attaagaggc ttaggatcgc tcgtaaccgc 420
aagacaggaa agtccaagca ctatggattc attgagtttg agaaccctgc tgtggcaaag 480
gtcgtagcag atgagatgaa taactatctc ttgtttgagc gcaccttgca agttgcactt 540
gttgagccgg agaaagttca tcctaaatta tggaaagggg tgcgaagggg atttatacct 600
gt 602

<210> 5342

<211> 528

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-K6-E2

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cgctctttca gcaagcgctg ctaccactac tattattcca caatgctcac aacatttcct 120
tttctccggt gacagccgct gggtttctac acccaactat acaatcctac atgctacatg 180
aggccatcgt agcaagcatc ttacgggtcat tagcattaac cctccaacag ccatatgccc 240
tattgcaaca accatcctta gtgcatctga atctccaaag aatancgaca caacaactac 300
aacaacagtt gctaccaaca atcaatcaag tagttgcagt tatccttgct gctnatctcc 360
agcaacaaca tatttnttcc attcaatcaa ctagctgggg acaaccctgc tgtctacttg 420
caggcacaac atctactanc atttaaccaa cttgtcggga gccctgctga cttcttacng 480
caacttcagc tcttgccatt cnatctgcaa tctgtggaaa acattgct 528

<210> 5343

<211> 533

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-K6-E3

<400> 5343

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ctttctgcaa gngctgttac ggcgaccatt ttcccgaat gtcgcaagc tcctatagct 120
ntcttttttt ctgcgtacct atcaccagcc gtgtcttggg tgtgtgaaaa cccaattctt 180
cagccctaca ggatccaaca ggcaatnaca gctggcatct gacctttatc acctttgttn 240
ctccatcaat catgagccct attacatcag ttaccttggg tgcatttatt ggcnaaaaac 300
attagggcac aacaactaca acaacttgtg ctagcaaacc ttgctgncta ctttcagcaa 360
cagnagtttn ttctctncaa ccaactagct gcnnatgaact ctgcttctta tttgcagcaa 420
caacaactac cattaagcca gntacctgct gcctaccccc agnaatttct tccattatac 480
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<210> 5344
<211> 566
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-108-Q1-K6-E7
<400> 5344

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tttagtgagc gcaacaaatg cgttcattat tccacagtgc tcaattgctc ctagtgccat 120
tttttttcat ttctccac cagttacttc aatgggcttg gaacatccag ccgtgcaagc 180
ctacaggcta caactagcgc ttgcggcgag cgccttacia caaccaattg cccaattgca 240
acaacaatcc ttggcacatc taaccctaca aaccattgca acgcaacaac aacaacaaca 300
acagtttctg ccatcactga gccacctagc cgtggtgaac cctgtcacct acttgcaaca 360
gcagctgctt gcatocaacc cacttgctct ggccaacgta gctgcatacc agcaacaaca 420
acagctgcaa cagtttatgc cagtgtcag tcaactagcc atggtgaacc ctgccgtcta 480
cctacaacta ctttcatcta gcccgctcgc gnggggcaat gcacctacgt acctacaaca 540
acagttgctg caacaaattg taccag 566

<210> 5345
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-K6-E8

<400> 5345

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gcaacaattg ctgccattca accaacttgc ttgacaaaac ccagcagcgt tctaccaaca 120
acccatcatt ggtgggtgcc tcttttagat ttcttatgag ttatagttca ataataaagt 180
tttttgtctg atgtttgtgg cttcccagaa ataagaaagt acatttct 228

<210> 5346

<211> 598

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-K6-F1

<400> 5346

ggtcgaccca gcgttctgaa ctagcacata gtaaagcaca tactgtacca acaatggaca 60
gccaaaaatt ttgcctcctt atgctccttg gtctttctgc aagtgtgtgt acggcgacca 120
ttttcccgca atgctcgcaa gctcctatag cttcccttct tccccgtac ctcacaccag 180
cgggtgtcttc ggtatgtgaa aaccaattc ttcaacccta caggatccaa caggcaatcg 240
gagctggcat cttaccttta tcacccttgg tctccaaca gtcacagcc ctattacaac 300
agttaccttt ggtgcattta ttggcacaaa acatgacggc acaacaacta caacaacttg 360
tgctagcaaa ccttgctgcc tactctcagc tttttcaggt cttccattca accaactacg 420
ttcattgaac tctgcttctt atttgcaaca acaacaacta ccattcagcc agctacctgc 480
tgnctacccc cagcaatttc ttccattcaa ccaactagca gcattgaact ctctgcata 540
tttacagcag cancaactac taccattcag ccagctagct ggtgtgaggc cctgctac 598

<210> 5347

<211> 593

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-K6-F12

<400> 5347

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 gggagcgggg gcgctggccg ggctcgcagc gtgcgcgacg ctggcgtgca acgtcgcagg 120
 cgccgtgctc ttctctctca gccaagacga cgagcggctg cggcgcgggt gtgcggcgag 180
 gttggggcgt ggcggcgctc cgtcgcagcc ggtggaggag tgcggggatg aagaggcgct 240
 cgcgcgggac gccgtctctca acctcgagct cggcgacccg acgatgtacc gggcgttctg 300
 gcgggaggtt ggggactgcg gcgccaccgt gatccgcggg tgccagggga tgagctactt 360
 ctccgacgac gacgccgtgc tctgctggtt cctcgagccg gagctggagc gcgaggtgcy 420
 ccgactccac cgcctcgttg gaaacgccgt cgtcgacggc taccacctcg tggtcggcac 480
 cggcgccacc cagctctacc aggccgccat gtacgcgctc agttcgccgg cgcgccggga 540
 ccagcccgtg cccgtcgtct cgcggcgcc gtactactct tctatccgc cgc 593

<210> 5348

<211> 592

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-K6-F3

<400> 5348

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 cttggatatg aaatcgggtga caaggaattt gaggacttct ttaaacgcta caaagaggtt 120
 gcagagaaga aaaagcgcgt aactgatgaa gacttagaag cgttattgtc ggatgagata 180
 ttccagccta aggttatttg gtcccttgct gatgtacagg caacatgtgg tacacttgct 240
 ttatctacgg caacagngaa attgatagca ccagatggag aggagaaaat agcatgttca 300
 gtcggaacag gtccagtcga tgcagcttac aaggctgttg acaaaataat ccagattcca 360
 accgttctcc gagaatacag catgacatca gtcacagaag gcattgacgc aatcgcgaca 420
 acccggttg ttgtcactgg agatgtgagc aacaacgcc aacatgccct gactggccag 480
 tctttcaacc gtccttcag cgggagcggg gcattcatgg acattgtggn gtccagtgtc 540
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<210> 5349

<211> 593
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-108-Q1-K6-F5
 <400> 5349

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 aattatctaa ctccaaaaac catgaagctg gtgcttgtgg ttcttgcttt cattgcttta 120
 gtatcaagtg tttcttgtac acagacaggc ggctgcagct gtgggtcaaca acaaagccat 180
 gagcagcaac atcatccaca acaacatcat ccacaaaaac aacaacatca accaccacca 240
 caacatcacc agcagcagca acaccaacaa caacaagttc acatgcaacc aaaaaaacat 300
 cagcaacaac aagatgttca tgttcaacaa caacaacaac aaccgcagca ccaccaccaa 360
 caacaacaac aacagcacca acaacaacat caatgtgaag gccacaaca acatctccaa 420
 cattcacaag gccatgtgca acaacacgaa cagagccatg agcaacacca aggacagagc 480
 catgagcaac aacatcaaca acaattccag ggcatgaca agcagcaaca accacaacag 540
 cctcagcaat atcagcaggg ccaggaaaaa tcacaacagc aacaatgtca ttg 593

<210> 5350
 <211> 596
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-108-Q1-K6-F8
 <400> 5350

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 ggacgacgcc gtgcacctca ccagattctt cacctgggga ggaggctccg tcgacttctt 180
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gctttcaagt tctcttagct gacatgcgga gacgccaagc tccgggttat tcaagatctc 540
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<210> 5351

<211> 559

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-K6-F9

<400> 5351

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 aatgcagatg 'cctgccccct ggcgggggct gcagggttg tacgggtgtct ttttttctgc 120
 ctgacgacga tgatgggagc cggcgggctg taccctacg cggagtacct gaggcagccg 180
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 cccatggcca tgatgatggc gcagaacatg ccggccatgg gtggactcta ccagtaccag 480
 ctgcccagct accgcaccaa cccctgtggc gtctccgctg ccattccgcc ctactactga 540
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<210> 5352

<211> 550

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-K6-G10

<400> 5352

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 ccttgccacc accagctgct tttttttttg ctaaagcagg gagggtgccg tgcgagggcc 180
 cgggcctgaa gatcgggttc cacgtggagg agtactcgaa ccccgctac ttgcgggtgc 240
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cggcgcgcgg tccgccgacg gggcgggtgga cgccgatgcg cgagtccttg ggctccgtct 360
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ccggcaagac gctcgtcgcc aacaacgtca tccctgcca ctggcgcccc aacaccttct 480
accgctcctt cgtccagtac agctaaccga tcgggatccg tgccctgccc gcaattggag 540
ctggctggct 550

<210> 5353

<211> 573

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-K6-G11

<400> 5353

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cggcgacgcc ctactgctcg cctcagtgcg agtcgttgcg gcagcagtg tgccagcagc 120
tcaggcaggt ggagccgcag caccggtacc aggcgatctt ttgtttggtc ctccagtcca 180
tcctgcagca gccgactcca tgcccctacg ctgctgccgg cgggtgtccc cactgaagaa 240
actatgtgct gtagtatagc cgctggctag ctagctagtt gagtcattta gggcgatga 300
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aatgaacaat tgaaatgaaa agaaaaaagt attgttccaa attaannnnn aaannnnaaa 420
aanaaaaaaa aanaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaatt tnaaatTTTT 480
nnnnnnnaaaa nnaaaaaann aaaaaaaaaa aaaaaaaaaa aaatTTTTTT aaatnaaaaa 540
aanaaaaaaa aaaaaaaaaa aaaggggggg ccc 573

<210> 5354

<211> 567

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-K6-G12

<400> 5354

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 ttcccccata cctctcacca gcggtgtctt caatgtgtga aacccaatt gttcaaccct 180
 acaggatcca acaggcaatc gcaacaggca tcttaccatt atcacccttg ttcctccaac 240
 aaccgtcagc cctattacag cagttacctt tgggtccattt ggtggcacia aacatcaggg 300
 cacaacaact acaacaactt gtgctagcaa accttgetgc atactctcag caacatcagt 360
 ttcttttcatt caaccaactg gctgcattga actctgetgc ttatttgcaa caacaattac 420
 cattcagcca gctagtgtgt gcctaccccc agcaatttct tccattcaac caactagcag 480
 cattgaactc tgctgcttat ttacagcagc aacaactact accattcagc cagctagctg 540
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<210> 5355
 <211> 584
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-108-Q1-K6-G2

 <400> 5355

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 ctgctacctc tactattatt ccacaatgct cacaacaata cctctctccg gtgacagccg 180
 cgggatttca acaccaact atacaatcct acatgtaca tgaggccatc gtagcaagca 240
 tcttacggtc attagcatta accctccaac agccatatgc cctattgcaa caaccatnct 300
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 caatcaatca agtagttgca gcgaaccttg ctgcttatct ccagcaacaa caatttcttc 420
 cattcaatca actagctggg gtgaaccttg ctgtctactt gcaggcacia caactactac 480
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<210> 5356
 <211> 317
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-108-Q1-K6-G4

<400> 5356

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aaaaaaaaaa aaaaaaaaaa aaaaaattta tataaaaaaa aaaaaaaaaa aaaaaaaaaaag 180
ggaggaggaa aaaaaaaaaa aaaaataaaa aaaatTTTTT tatagaaaaa aaaaaaataa 240
aatTTaaata ttaaaattat taacttgggtg tttcattgggt tacaacctga aaaatTTTTT 300
aaaaaaaaaa agagggg 317

<210> 5357

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-K6-G5

<400> 5357

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gagggagtgg aggatgattg atctgtcggc agtctgatgg ggatgaatta tacgattttt 180
ttaacgctga cacaaagggg taatgaaaca gactcgaatc cagtgattat tggcgctncc 240
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ggttgctgcc gcaactaaaa gtccattcag ngtggatgtc agttgggcta cgntatctna 360
gaataaaaag tttgaggaac aacgagcatg ttgccaagtn gtttcttnag tattagtttc 420
tgcgtcta 428

<210> 5358

<211> 546

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-K6-G6

<400> 5358

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aatactgtaa tcttttcagct acttttatga cagtaggcca cttgtccaag agcactgaag 180
tgatgaaact tgtcaacagc ctcatgaaaag ccccgagggt tgcagccaca atgcaggaat 240
tcagcaaaga gatgacaaag gctgggtgtga tggaaagaaat ggtcaacgat gcttttagatt 300
caactctgga cagcgaggac atggaggagg aaattgaaga ggaggttgac aaggctcctca 360
ctgcaatcgc tggggagacc gcctctgagc tcccggatgc tgtcaggaat gaaaaggaga 420
agatgaagca nccttcaaca agtgtacctg cggagagaaac tgctatagca gaggctgttg 480
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ctgaac 546

<210> 5359
<211> 600
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-108-Q1-K6-G7
<400> 5359

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acttggccct cactgagcag ccttccaagt ttgattttta tgatccaaaa acacctttct 180
tcaactgcacc ccgatgcttg cctccgacgc aattggacaa gtgcaagatg aaagatgcat 240
ttatctcaga tggttgctta ctgagagaat gcaacatcga gcattctgtg attggagtct 300
gctcacgtgt cagctctgga tgtgaactca aggactccgt gatgatggga gcggacacct 360
atgaaactga agaagaagct tcaaagctac tgttagctgg gaaggtccca gttggaatag 420
gaaggaacac aaagataagg aactgtatca ttgacatgaa tgctaggatt gggaagaacg 480
tgggtgatcac aaacagtaag ggcattccaag aggctgatca cccggaagaa gggactaca 540
taaggctctgg aatcgtgggtg atcttgaaga atgcaaccat caacgatggg tctgtcatat 600

<210> 5360

<211> 600
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-108-Q1-K6-G8

<400> 5360

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accctatcgc ctacttgcaa caacagctgt ttgcatccaa cccacttgct ttggcaaacg  180
tagctgcata ccaacaacaa caacagttgc aacagtttct accagcgctc agtcaactag  240
ccatgggtgaa ccctatcgcc tacctacaac agcaacaact tctttcatct agcccgctcg  300
ctatggggcaa tgcacctaca tacctgcaac aacagttggt gcaacaacag ttgctgcaac  360
aaattgtacc agctcttact cagctagctg tggcaaacc tgctgcctac ttgcaacaac  420
tacttccatt caaccaactg actgtgtcga actctgctgc gtacctacaa cagcgacaac  480
agttacttaa tccactagcg gtggctaacc cattggctgc tgccttccta cagcagcaac  540
ccatcgttgg tggtgccatc ttttagatta catatgagat gtactcgata atggtgcctt  600
  
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<210> 5361
 <211> 598
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-108-Q1-K6-H10

<400> 5361

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gcggagtggc tctcaacttc ttgttctttc tgatcgttct gaagcacctg aacctactcg  180
tcttgccata ccaatacttc tagctgttgg cgccatccac cagcatttga ttcagaatgg  240
tctccgtatg tctgcttcta ttgttgctga tactgctcag tgttttagca cacatcattt  300
tgcctgtctg atcggatatg gtgccagtgc tgtgtgtcct tatctggcac tagaaacatg  360
ccggcaatgg aggctgagca acaaaactct taatttgatg cggaatggga agatgcccac  420
agtgaacatc gagcaggcac aaaggaactt tatcaaggca gtaaaatcag gtctgctcaa  480
  
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aattctttca aaaatgggta tctcactgct ctcaagctat tgtggagctc agatctttga 540

aatttatggg cttgggtcaag aagttgttga tcttgccctc tgtggaagtg tatcgaaa 598

<210> 5362

<211> 563

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-K6-H11

<400> 5362

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tgcccttttt gtgagcgcaa caaatgcgtt cattattcca caatgctcac ttgctcctag 120

tgccattata ccacattttc tccgaccagt tacttcaatg ggcttcgaac acctagctgt 180

gcaagcctac aagctacaac aagcgcttgc ggcgagcgtc ttacaacaac caattaacca 240

attgcaacaa caatccttgg cacatctaac catacaaacc atcgcaacac aacagcaaca 300

acagttccta ccagcactga gccaaactaga tgtgggtgaac cctgtcgcct acttgcaaca 360

gcaggtgctt gcatccaacc cacttgctct ggcaaacgta gctgcatacc aacaacaaca 420

acaattgcaa cagtttctgc cagcgctcag tcaactagcc atgggtgaacc ctgccgccta 480

cctacaacag caacaactgc tttcatctag cctctcgtt gtgggtaatg cacctacata 540

cctgcaacaa caattgctgc aac 563

<210> 5363

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-K6-H12

<400> 5363

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cagctgcctc agtgggtggg ggggggcgtt ctgtcgccg cgttctagct cgtgccagcg 180

cttgccgtgc tgggggtgtc gcagcctctg cagcccgtgc ctgggcctgc gtgtcgcgtt 240

cttgccgtcc cagtgtagcc ccgcccgcac gccctccggt tctaccgct ctcagccgct 300

tccggtgtggt gatccctgcc gattacttgc gtcgggcctg ttttgctgtt ccccgctcg 360
 ttctgggtgg tgctgctgtc tttcctgcac cac 393

<210> 5364
 <211> 610
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-108-Q1-K6-H2

<400> 5364

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 cttcgaacac ctagctgtgc aagccaacat gcaacaacaa gcgcttgagg cgagcgtctt 120
 acaacaacca attgcccatt tgcaacaaca atccttgcca catctaacaa tacaagccat 180
 cacaacgcaa cagcaacaac agttcctacc agcactgagc cacctagcca tgggtgaaccc 240
 tgcgcgctac ttgcaagagc agctgcttgc atccaaccca cttgctctgg cgaacgtagt 300
 tgcaaaccag caacaacaac agctacaaca gtttctgcca acgctcagtc aactagccat 360
 ggtgaaccct gccgcctacg tacaacaaca acaactgctt tcatctagcc cgctcgtgtg 420
 gggcaatgca cctacatacc tgcancaaca attgttgcaa cagattgtac cagctctgac 480
 tcaactagct gtggcaaacc ctgttgccca cttgcaacag ctgcttccat tcaaccaact 540
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 agtggctaac 610

<210> 5365
 <211> 87
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-108-Q1-K6-H3

<400> 5365

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 gaaaaaaaaa aaaaaaaaaa ggaaaga 87

<210> 5366
 <211> 613
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-108-Q1-K6-H4

<400> 5366

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tttcccgcga tgctcacaag ctcttatagc ttcccttctt ccccggtacc tctcaccagc 180
gggtgtcttcg gtatgtgaaa acccaattct tcaaccctac aggatccaac aggcaatcgc 240
agctggcatc ttacctttat cacccttggt cccccaacaa tcatcagccc tattacagca 300
gttacctttg gtgcatttat tggcacaaaa catcagggca caacaactac aacaacttgt 360
gctagcaaac cttgctgcct actctcagca acagcagttt cttccattca accaactagc 420
tgcattgttc tctgcttctt atttgcaaca acaacaacta ccattcagcc agctacctgt 480
tgcctacccc caacaatttc ttccattcaa ccaactggca gcattgaact ctctgctta 540
tttacagcag caacaactac taccattcag ccagctagct ggtgtgagcc ctgctacctt 600
cttgacacaa cca 613
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<210> 5367
 <211> 554
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-108-Q1-K6-H5

<400> 5367

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gcggtgtctt caatgtgtga ggaaccgaat tgttcaaccc tacaggatcc aacaggcaat 180
cgcaacaggc atcttaccat tatcaccctt gttcctccaa caaccgtcag ccctattaca 240
gcagttacct ttggtccatt tgggtggcaca aaacatcagg gcacaacaac tacaacaact 300
tgtgctagca aaccttgctg catactctca gcaacatcag tttcttccat tcaaccaact 360
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ggctgcattg aatatagttg cttatgngca acaacaatta ccattcagcc agctagttgc 420
 tgccctacccc cagcaatttc ttccattcaa ccaactagca gcattgaact ctgctgatta 480
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 cttgacacaa caac 554

<210> 5368
 <211> 522
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-108-Q1-K6-H6
 <400> 5368

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 cctacagact ctacaacnnt agcgcttgcg nnngcgagcg cnncttacia caaccaatnn 180
 tgcccaattg caacaaccaa tccttggcac antctaacc taaaaccat tgcaacgcaa 240
 caacaacaac aacaacagtt tctgccatca ctgagccacc tagccgtggt gaaccctgtc 300
 acctacttgc aacagcagct gcttgcatcc aaccacttg ctctggcgaa cgtagctgca 360
 taccagcaac aacaacagct gcaacagttt atgccagtgc tcagtcaact agccatggtg 420
 aaccctgccg tctacctaca actactttca tctagcccgc tcgcggtggg caatgcacct 480
 acgtacctac aacaacagtt gctgcaacaa attgtaccag ct 522

<210> 5369
 <211> 594
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-108-Q1-K6-H7
 <400> 5369

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 ctcccttggtc tttctgcaag tgctgctacg ggcaccattt tcccacaatg ctcaacaagct 120
 cctatagctt cctttcttcc ccgtaacctc tcaccagcgg tgtcttcggt atgtgaaaac 180
 ccaattcttc aaccctatag gatccaacag gcaatcgcag ctggcatctt acctttatca 240

cccttggtcc tccaacaatc atcagcccta ttacagcagt tacctttggt gcatttattg 300
gcacaaaaca tcagggcaca acaactacaa caacttggtc tagcaaacct tgctgcctac 360
tctcagcaac aacagtttct tccattcaac caactagctg cattgaactc tgcttcttat 420
ttgcaacaac aacaactacc attcagccag ctatctgctg cctaccccca gcaatttctt 480
ccattcaacc aactgacagc tttgaactct cctgcttatt tacagcagca acaactacta 540
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<210> 5370

<211> 537

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-K6-H8

<400> 5370

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cagcnnaccg gtaccaggn ncgatctnnt cggttttgg tcctttccag tccattcctg 180
tcnnagcagc agnnccgcaa aagcnnngcc aggtcnngcg gggcttgtn gnngcggcgc 240
agaatttagc gcagcaactt tgacggcgat gtnnngcggc ctgcnnnagc agccgacttc 300
cattgcccct tacgctttgc tgcnnngcg gnngtcccc cactttgaag aaactatngt 360
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atgattgnnn agtaataatg nntgtcacgc attcaaccat nngggtgga nngtgtcagt 480
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<210> 5371

<211> 614

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-K6-H9

<400> 5371

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 cgattcctgc gccggagccg ccgtccggag gacgacgtgt gcggcgggcg aggcagtagg 240
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 gaaactcgca acgt 614

<210> 5372
 <211> 534
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-108-Q1-N6-A12
 <400> 5372

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 ttttcacct tatgtcctt gctctttctg catgtgttgc taacgcgacc atttttcctc 180
 aatactcaca agctcctata gctgcccttc tcccccata ccttacatgc aatgaccgct 240
 ttagtatgtg taaaaccag cccttcaacc ctacaggatc cagcaagcaa tcgcaacaag 300
 caacttacct ttatcacacc tgttctttca acaatcgca gccctatctt tgggtgcagtc 360
 attggtacaa accatcaagg cagaacagtt gcagcaactc gtgctaccag tgatcagcca 420
 agtagctctg gcaaaccctt cccctgact ctgagcaaca acaatttctt acattcaacc 480
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<210> 5373
 <211> 438
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-108-Q1-N6-A4

<400> 5373

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gtgtgggtct gattggcggt gttgtggggc ttcggggcca ttgggtttct gctggggagt 180
ccgtgggtgct tgctgaactg ttgggccgtc tcccgcgggt tgggtgggcgg ttgccccgtt 240
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gtcttggtcg ctcggggttt tggcttgttg ctgttcgtgt tttttccgcy ttgttgcttt 360
ggtgttcctt ttttttcctg ccttttttagc cttgggtttt tttttctttt ttttgggggt 420
tgtttttggt gtgggggt 438

<210> 5374

<211> 590

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-A6

<400> 5374

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tctaccggtg cagatttcgt cgtgtggttc gtgacgagca gggttcgtgt aggtgctccg 120
cggccttgga tgagggtgtg caggtttcta cgaggcatct ggtagtacct ggttgccggg 180
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tacatgcgtg gaaggcgagg gagtggggac gacaacctat tacggctagt aggctggcat 300
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octggcacia cactcgacgg cgcccaagaa actgggcata cttaagattc ttcatactat 420
ttctgcgcct ggtgagttcc aggtcttttt ctgtcccggc gggaggaacc ggggaatttt 480
cctgtctagc tttagcatga gcatccatag agctggatac aagatctcca gcgagcgagt 540
aaagaagctg ttctggaggc atgagcagga caaggggata atcttgcgcg 590

<210> 5375

<211> 335

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-108-Q1-N6-A9

 <400> 5375

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 taatcagtac cgatggtgct gttggctgac aatgatgagt tcgtgtgggc acaattggcg 120
 tagttatggg gcttcggagc cattgtggtt atgcagcagg atccatggcg atagatgaat 180
 tattgggaag tctcccgccg gttggtgaac aactaaaccg ttttttgggt ctgcggggga 240
 cgaaagaata acttgccctt cgggttgcag atctgtaaga ggatcttgct tacacgaagt 300
 ctaagcttgt ggctgtacgt ggttcctgag cgaaa 335

<210> 5376
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-108-Q1-N6-B10

 <400> 5376

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 taaaccccat tggttaaagcg tacagatctc agacatcaat cgcaacaaga atggttacca 180
 ttatcaccct tggttactacg acaaccggct gacatattac agctgggtcc ttgggtccat 240
 ttggtggtgc agaacataag ggcacaacaa ctacaacaac ttgtgctagc aaaccttgat 300
 ggatactcgt taggaacata actttcttgc attaaaccaa ctggctgtat tgaaatctgc 360
 tggt 364

<210> 5377
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-108-Q1-N6-B11

 <400> 5377

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cgtggagtgg acaatgagtt aatctgtagt gatggtcttg ttgactgaca ataatgagtt 120
 cgtatgggca taattggcgt agttatgggg cttegaagcc attaggggta tgcagcagga 180
 tccatggaga tagatgaatt atttggaagt ctgcgcgcgg ttggtgaaca actaaacagt 240
 tatttcagtc tcacggagac gaaagaataa cttgcgcctc gtgttgacaga tctgtaagag 300
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<210> 5378

<211> 483

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-N6-B2

<400> 5378

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 tcgctcttgt ggctgtgggt gcgattgtta cttactcgtc tccgatcggg ggctgcgggt 180
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 tgccgcctcc ggggcttggt gtcaggcgcg tgccagctgc acgtcgcccg gtcggttggt 300
 tgcgctatcg tgtccatgct gccggcgccg ggcatgtgct cgtttgcccgc tgctgctgcc 360
 ctattgactg gnggaggcct ccgcctattg cctgggtccc gtgctgcggg tgcccctggc 420
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<210> 5379

<211> 572

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-B6

<400> 5379

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tctttccctc cttatgctcc ttgctctttc tgcattgtgt gctaacgcga caattttccc 180
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ttcagtatgt gaaaaccag ctcttcaacc ctataggctc caacaagcaa tcgcagcaag 300
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gggtacaaacc atcaaggcac agcagctgca gcaactcgtg ctacctgtga tcaaccaagt 420
agctctggca aacctttctc cctactatca gcaacaacaa tttcttccat tcaaccaact 480
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tactggctac tttcatcaac aacaacttct tt 572

<210> 5380
<211> 553
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-108-Q1-N6-B7
<400> 5380

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ctagcggctc gtggcagatc ggctgtacc cgagggttct gtctctgtgg gggccggtaa 120
gctaagggtg tgatgctctg ggggtcagc aatctgaata ccgtcgcgat gagcgcgttc 180
ctggtgggat ccgtggacaa gcgcgagaag agccaaccga tgctctagag cccgttgctg 240
tattgctctc tcaatccgag agacttggag gctgatagta aggtacacgg ttaattgtat 300
gacaccctgg cttgacttgc taaatgcatg tgaagatcat ctacttgagc atcattggac 360
tatgagatca atactttctt aactcaggt taatcatatt tgcttgacga ccttaactat 420
tgttttgttg aaagcaccat tgttaaatac tggatgctag ggactgatga tgcacctctg 480
tattgacagt gtaaactcac aatcttgtga actgcctata tggacggata aactgttaat 540
gaaacacatt ctg 553

<210> 5381
<211> 360
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-108-Q1-N6-B8

<400> 5381

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cgtgagttga ccatgattca atctgtaccg atggtgctgt tggctgacaa tgatgagttc 120
gtgtgcgcac aactggcgta attatggccc ttcgaagcca ttgttggtat gcagcaggat 180
ccatggacga tagatgaact atttgaact cccccccgc ttggtgaaca actaaaccgt 240
tatttcagtc tgacggagac gaaagaataa cttgcgcctc gtgttgacaga tctgtaagag 300
gatcttgatt acacgaagtc taagcttatc gctatacgtg gtttctcaac gaaattactg 360

<210> 5382

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-C10

<400> 5382

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tatctgctgc ctaccccaca atttcttcca ttcaaccaac tgacagcttt gaactctcct 120
gcttattttac agcagcaaca actactacca ttcagccagc tagctgggtgt gagccctgct 180
accttcttga cacaaccaca attgttgccg ttctaccagc acgctgcgcc taacgctggc 240
accctcttac aactgcaaca attgctgcca ttcaaccaac ttgctttgac aaacccaaca 300
gcattctacc aacaacccat cattgggtggt gccctctttt agatttctta tgagttatag 360
ttcaataata aagttttttg tctgatgttt gtggctttcc agaataagaa gtacatttct 420
aaaaacaaa 429

<210> 5383

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-C11

<400> 5383

ggccgcaaaa acttttagcta aattatgctt cttggacctt ttgctagtgt tgcttctgaa 60
accgggctcc cacaatgctg cactggctcg gtatgaaaca ctgcttggtt tccgccatac 120

ctatgcacca tcgaatgtgt tcaatgtgtg gaaacccgca atgagggcaa cccactacat 180
ggatcctaac aggccatgtg cgaaaaggca tcatcaccat gtatgaccct tgaatgctgc 240
aacaatcaca tgacctatct cagtaaatac ctttagttca ttttgttgca cataacatca 300
agacacaaca actactacaa cttgtgctag caaaccttgc tgcatactct cagcaacatc 360
atggttttac attcaaccaa ctggctgaat tgaactctgg tgcttttttg ccactaccat 420
t 421

<210> 5384

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-C12

<400> 5384

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ggaaggggtg gtacgcgaac attgtccac attgctaaca acgtcttagc ttgccttatt 120
tcgccaacct gtaacaagcg gccgtcttta atgtttgaaa cccaattga atcaaacct 180
acaggatcca acatgaaatc gcaacaggca tcataccatt atcaccttg attgtccaac 240
aaccgtgatc cctattacaa caattacctt tgaatgcatt tgggtggcaca aaacataaga 300
acacaacaac tacaacaact tgtgctatca aaccttgctg catactctca gcaacatcag 360
tttctttcaa tcaaacaact tgggtgaatg g 391

<210> 5385

<211> 501

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-C2

<400> 5385

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gtacttatt agtggaatgc cgtaccatca ttggcaaaca tattttttgc tgtcttatgc 120
ttattgggtt ttatgcagtg ctgctactga cggttggtgg acaatgctta caagcttcta 180
tagaattacg ttgtttcaat gtgectatta gcagcgggtg tttgaggggt cgaaaactca 240

gttcttcaac cctacaggaa tccaacaagc tgttgcagcg tgcattatga cctttatcac 300
 cacttggtct tgctacaatc cgtgggtgcct attacaggct gtacctttga tgcatttggt 360
 ggaacacaac atgaaggctc aacagctaca aaagcttggt ctaggaaacc tttatgtcta 420
 ctattagcaa cagcagtttc ttatatcaa ccaactggca tgcattgaac tctgctgatt 480
 atttgcaaca acaactacca t 501

<210> 5386

<211> 613

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-N6-C3

<400> 5386

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 tgcgtgccc ttccggtctgt gttgtgttgt gtcctctggg tgcggtttgt tggctcgtgg 120
 cgtggctctt tgggttttgt ggggttgtgg gctagccggg cgcgcgtgga gctgctgctt 180
 gtgttctggg gatgccttcg ttgggtggtg ggttcgggtcc ctttcctccc gcgggggagt 240
 tgctttgggtg ctcttggtgc tcgacagggt ggccggtgtgt gctctttccc cccctgtttt 300
 cgggtgggggt tatttctttc nntttggggg ttttttgggg ttgtttcttt tccgggcgtg 360
 tttgtctggg ttttggtttt attaagaagg gggggggggt tcgggggttt tgggttggtg 420
 ttcttggtg gcgcgcctt tttttttttt ttgggggggt ttnggttttt tttttgttgg 480
 ggggtttttt ttttttgggt ggtgggggat tttttgtttt tttttctttt tttttttttt 540
 tcgggggtct cttttttttt tttcttttgg gttttttttt ttagggtgtt ttcccttttc 600
 tcttttctct ttt 613

<210> 5387

<211> 525

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-C4

<400> 5387

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tacatatattga tgtacactag ctacatcttg gcgccaatgg catacaagat tgtaggactt 120
tcttgtccta gttgctcttt tagcaagcgt tgctaccggg acttcattgg aagtgctcac 180
aacaatgggc gtgtcgtgct ggtgacagaa cgaagagtat tttgaatgcg caactataca 240
agcctacggg ctacgaggag ctctcgtggc aagcattgtg acgtggaatg agcattagac 300
cgtgcaacaa ccatgaaggc ctattggaac aaccatactt aatgaatata tgtctgcaaa 360
gaatggcagc gcagcaacgt acaacaacag gtgcttccaa cattgaatca agtatgtgca 420
gagaaccttg ttgcttacct acagcaacaa caatttcttc cattcaatca actagctggg 480
gtgaaccctg ctgcttactt gcaggcacia cagctactat cattg 525

<210> 5388
<211> 440
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-108-Q1-N6-C6
<400> 5388

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attggtgagg agtcacattc tggccatggg aaacaagtgg acatggagcg ctgaaagaca 120
accactggct cgatcatgga gcatacctta tggccaaact ttacgaataa acttgctgat 180
gctagtaaca ctgtgatcaa gtattggcag tcaaagtttt gactgattca cttaatggcc 240
tagaacaact catgtcgaca ctgaaataag ttaagatgac aaactctgca ccatattaaa 300
ggagggctct tccgctacta tggagaatgc gtattgagac atacaggaga atgcaatcaa 360
gagccacca aatatccatc cagcctctgc taaccatcat accctctggg ggttaacata 420
tgctgtatgg atattgctga 440

<210> 5389
<211> 371
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-108-Q1-N6-C7
<400> 5389

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tgtaggtaga atactgctcc ggttgctata accagcgggg tgtttggtat gtgaaaacgc 120
 aattgttaaa cggtgcaaga tccaacaggc aatcgctggt ggaatggtac cttcatcagc 180
 cttgttacta cagcatctga tccctaaact agctgtacct atgggtgcat ttattggcgc 240
 agaacattag ggcacaacaa ctacaacaac ttgtgcttgc aaaccttgat gtctactctg 300
 agcaacagca gtttcttgca ttcaaccaac tagctgcggt gaactctgct acttatttgc 360
 aacaacaaca a 371

<210> 5390

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-D10

<400> 5390

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 agcgcaacgc gcgtggagag tacgctcacc tataccgcta cactttgcat tttcttatca 120
 ccagttacat tggctatatt tcattgcttt ttaccactt tccctggatt agctcgagaa 180
 agtgtaaaac gctggcttg 199

<210> 5391

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-D5

<400> 5391

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 acacacagggt ggtgtcgatg taccagcacg ctgcgcctaa cactgggacc ctcttacaag 120
 tgcaacaatc ggtgccattc aaccaacttg ctgtgtcaaa cccaggagcg ttgtgccaac 180
 accccatcat tgggtggagcc ctctttttaga tgttttatga gatat 225

<210> 5392

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-D6

<400> 5392

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ctgaatgtca ggcgcccatt gtctgaaaca aggttcaagc tcgaggactt aaggctgggg 120
gttttggtcc tgaacgggga ctcacaccta tgcctatcat gcctgaggac tgtctatcct 180
agcaaccgcc tcagatcgcg accttgatct cctaagagca gctttcctga tgatggctat 240
gtgctagttc tctgtgccgt caggcacggc agaggcctcc agaatgaaga cacgtttgag 300
tctgccaaaa ctatcgcgag cctcacggat ggcaggatgt tggacatggg agaggatgac 360
caagcgaata cgaacgcgct gtgtgttcgc acccgcgaga gcgagcacct g 411

<210> 5393

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-D7

<400> 5393

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aatcagtacc gatgatcctg ttgactgaca ataatgagtt cgtgtgcgca caactggcct 120
aattatggcc cttcgaagcc attgttttta tgcagcagga tccatggacg atagatgaac 180
tatttggaac tctccccccg gttggtgaac aactaaaccg tgatttcagt ctcacggaga 240
cgaaagaata acttgcgctt cgtcttgagc atctgtaaga ggatcttgac tacacgaaga 300
tctaagctta tcaactatcg tggtttctca acgaaattac tgtgaaaa 348

<210> 5394

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-D9

<400> 5394

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aatcagtacc gatggtcctg ttgactgaca ataatgagtt cgtgtgggca caattggcct 120

aattatggcc ccacgaagcc attaggttta tgcagcagga tccatggacg atagatgaat 180
tattgggaag tctcccgccg gttggtgaac aactaaacag tttatttcag tcagacggag 240
acgaaagaat aacttgccgc tcgtgttgca gatctgtaag aggatcttga ttacacgaag 300
tctaagaatt atgactatac gtgggtttctc aacgaaatta ctgtgaaaac actatt 356

<210> 5395

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-E11

<400> 5395

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aacacgtcat tgcctgccga tgacttaatg ggtctcactg ccgtgtgggc tatcgatacg 120
acatccagcg cgcctaccgc ctacgacatg cctgactaac gcacgtaag actgtgcatg 180
tagagaggag gagggccacc ggagatggtg ctaaggatac aacaaccggt accagaaaaa 240
gtgatcaaac gctgtaccct gataccactc cactctagg gctaggactt gctggctctg 300
tatagaagcc ggacactgaa actccataac gtgctgcctt gctgattagc gcgaaaacac 360
acatacagtt ttacacatt gcggcatcca cctcatgggt gctacgatgc agagataaaa 420
gggttgtgta agtagcgtgg agatgttaat aggctaacga gcgttaataa cc 472

<210> 5396

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-E2

<400> 5396

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gccgctggcg tcttcccttg ggggccctcg ctctgccggg ttgttggggc cttgctcagg 180
ggtttccctt ggcgcgcttg ttggctcgca gcatttgggg ccgtcgtctg cgggtgcttg 240
tgctaggcgc accttggtg gctagctcgg agcaccactg gggttcgttt cattcaagca 300

actaggtgca ttgcactctg cttgttggtt ggtactactt cttgttcctt tcattcagct 360
gtgtggtgcc tgccccagc aatt 384

<210> 5397

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-E6

<400> 5397

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gctgctataa ctctccttgt ttgcgcaac ctcgtaaccat cagtggcttc agtttgtgaa 180
aacccaatag tgtaacccta catgatccaa catgctatca caactggcat atcaccttta 240
tcatcattaa tgctccaaca ctcataacac ctatcacatt aaataccttt ggtgcattta 300
ttggcacaaa acatgaaggc acaacaacta caacaacttg aactaacaaa acttgctgcc 360
tactgtcagc aacagcaggt tctttcattc aaccaactag ctgcattgaa cactgcttct 420
tatttgcaac aaccaccac 439

<210> 5398

<211> 577

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-E7

<400> 5398

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cgaagcgcac tagcaacgac ctaacaccaa tggctaccaa aatttagccc tccttgcgct 120
tcttgccctt aaagacgagc gcaacaaagc gttcattatt ccacagcgct cacttgctcc 180
tagagccatt agtaccacag aatcctgcca ccagttactg gcaatgggct atgaaatata 240
gccgtgcaag cctacaagct acaactagcg cttgcggaga gcgccttaca acaaccaatt 300
gccaattgc aacaacaata cttggcacat ctaaccctac aaaccattgc aacgcaacaa 360
caacaacaac aacagttgct gccatcactg agccacctag ccgtggtgaa cctgtcacc 420

tacttgcaac agcagctgct tgcattccaac ccacttgctc tggcgaacgt agctgcatac 480
cagcaacaac aacagctgca acagattatg ccagtgtctca gtcaactagc catggtgaac 540
cctgccgtct acctacaact acttttcattt agcccg 577

<210> 5399

<211> 473

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-F1

<400> 5399

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ttctgcatgt gctggtggcg gcgaccattg ttgggtaggc tggcaagctc ctatggggtt 180
gcttaatcaa gcgggcctaa tagcagcgat gggtgcggta tgtgaaagcg catgctttaa 240
gcgtacaggg ctggtcaaga cggtaacaac tggcattgta octataagac accttgggtct 300
ctacaaacag atatctggcc ttaatgacaa caagtagctg ctgctgcatt atattgggaa 360
aaaacatgag ggcacaacag cttcgatagt tgagatagca aagcttgggtg gctactctca 420
ggaagaatag tttctttcat tgaaccaact aagttcattg aactctgggtt att 473

<210> 5400

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-F10

<400> 5400

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gatattcttg ccgaacaagg tgaaggcaat acgaccgagg agggatctac taacaacaaa 120
actccgtcca gaacatttcc tgtcaaggaa gccatcctag cagtgcctac tatcagagtg 180
ctcgagacat tactaaaaac ccaggagcta cattctctag aggagtctgg cacaccacct 240
tcaagccctg aaaaaagcaa gagcccagca cacagccttc ttcaagcttc tggattcagt 300
ggatcaaggc gccttattac caccgatta acttggctac ggccccagga ccaagcaatc 360

tcgtggagga catgcaccac catgacccga atgccatacc ttcaaattac gtgtggacca 420
cacccttga taataaa 437

<210> 5401

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-F11

<400> 5401

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gcaagctaata atagctggcc ttgttaaacc gtgcctgtca ccaggggtgt cttggggctg 120
tgaaaacaca attcttgaac cctacacaat ccaacaggca aacacagata gcatcttacc 180
tttataaaac ttgttacctc caacaacat caaccttatt acatggaata ccttgtgggc 240
atttataaga aacaaaacat tacaacgcaa caactacaac aactggaact aaaaaacctt 300
gctgcctact ctgagcaaca gcagattgtt ccattcaacc aactaactga aaagaactct 360
gctttttt 367

<210> 5402

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-F12

<400> 5402

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cggtagctgg ggcgctggtg ctgctagaca catgcgcgac gatggcatga aacgcaaac 120
gaaccaagct cttctactaa accaaacaac agcagttgca gacaaaagac agaaagctgg 180
tggtctggatg ttttgtggca atccaggtga gtgcgattga acattactcc gccagatcat 240
acatgaaggc gatctacgag aatgtacaat acaccgggag tggttcaggat gagggaggct 300
aatgcaccgc gactgtgat ccgaactggt cacgggatgt acctactatt tgagaccacg 360
cagcaatttg gtgcattctt gagaccctc tttatcacia ggtgcgccgc taacacggat 420
aagttgaaac ggcgttgctt 440

<210> 5403
 <211> 507
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-108-Q1-N6-F2

 <400> 5403

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 aggtgctccc ctactgcat cgtaataca cacccaatta gtgacgagag gctctacca 120
 gcgctgagtc attgctctcc aacgagcgcg agggccgagg actatgaaaa ccagcgcgaa 180
 gcgcgaacgc catgagtggg ggatgactcg ggaacatata gcctggccgg aataaataat 240
 cgactcgtga tacacacgtt gataaagcat gggaaaaggg aacggagaga tactctcagt 300
 atcctcaagc taaaccaccg aacacctggc accaatcagt gcaaatacctc acaggctcatg 360
 ggtcttaata acagcctaca caatgactga tgatatcatc tcttacataa acagatttaa 420
 ccattaatta aacatgcat acaacgcaac aaatacaaac gtggacaaaa ctatgttgaa 480
 taaaacggca ggcacatcca gcatata 507

<210> 5404
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-108-Q1-N6-F3

 <400> 5404

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<210> 5405

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-F6

<400> 5405

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<210> 5406

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-F8

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<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-F9

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<210> 5408

<211> 104

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-G10

<400> 5408

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<210> 5409

<211> 559

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-G11

<400> 5409

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aaaagtattg ttccaaatta aaaaaaaaaa actgtgaccg gggggggggg ccccccccg 480
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<210> 5410
 <211> 642
 <212> DNA
 <213> Zea mays
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 <400> 5410

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<210> 5411
 <211> 349
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-108-Q1-N6-G2
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 caactacaac aacattgggt accaacaatc aatcacttat gtgcagcgaa cattgctgat 180

tatttccagc aacaacaatt aattgcattc aatcaactag ctgggggtgaa ccctgctgtc 240
tacttgcagg cacaacaact actaccataa aaccaacttg tcgggagcac tgatgccttt 300
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<210> 5412
<211> 440
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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aaaaattttt ttttttttga ttccttaaaa aaaaaaaaaa aaaaaaaacc cccccccct 360
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tgggtaatta aagggggggg 440

<210> 5413
<211> 278
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-108-Q1-N6-G5
<400> 5413

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gcagtctgat ggggatgaat tatacgaggt cttcaacgct gacacaaagg gttaatgaaa 180
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<210> 5414
 <211> 618
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-G8

<400> 5414

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catcgcagcg cagcagcccc atgcactggg ccacctagcc gtggtgaacc ctatcgcta 180
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gctgtttact cagctagctg tcgccaacc gtgctgcta cttgcaacaa ctactttcat 480
tcaaccaact gactgtgtcg aactctgctg cgtacctaca acagcgacaa cagttactta 540
atccactagc ggggggtaac ccattggtcg ctgccttact acagcagcaa cccatcgttg 600
ggtggtgcca tcttttag 618
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<210> 5415
 <211> 590
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-H10

<400> 5415

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tctctgtgaa gaccttttgc tgctatccgg agcgaatcta taactcatgg ttccctatga 180
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 ctttatcaag gcagtaaaat caggtctgct cataatattt tcaaaaatgg gtatctcact 540
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<210> 5416

<211> 532

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-H11

<400> 5416

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 tctgtgccct ttttgtgagc gcaacaaatg cgggcattat tacacattgg ttacttgctc 180
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 caacagcagg tgcttgcagc caaccactt gctctgggaa acgtagctgc ataccaacaa 480
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<210> 5417

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-108-Q1-N6-H2

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<210> 5418

<211> 494

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-H4

<400> 5418

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 cacataacat caagacacaa cagctaccac aacttggtgct agcaaaactt gctggctact 420
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<210> 5419

<211> 550

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-H7

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 aaccttgctg cctactctca gcaacaacag tttcttccat tcaaccaact agctgcattg 420
 aactctgctt cttatttgca acaacaacaa ctaccattca gccagctatc tgctgcctac 480
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<210> 5420

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-108-Q1-N6-H8

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 tagtatagcc gctggctagc tagctagttg agtcatttag cggcgatgat tgagtaataa 360
 tgtgtcacgc atcaccatgg gtggcagtg cagtgtgagc aatgacctga atgaacaatt 420
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<210> 5421

<211> 565

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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 <211> 580
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 <223> unsure at all n locations
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<210> 5423
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-109-Q1-K6-A5

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<210> 5424

<211> 551

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-109-Q1-K6-A6

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<210> 5425
 <211> 602
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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<210> 5426
 <211> 534
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-109-Q1-K6-B8

<400> 5426

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 aaaaaccttc atgttctaag ccagattgag ggtgttgacc ttgatatgta caaagaaact 180
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<210> 5427

<211> 573

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-K6-B9

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 gccgccactc ccgtcctctc tccgtcagcc gcttctcogg cggcctccgc gggggcggcg 480
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 aagggcccta cgagggcctt ggcgccgggg aca 573

<210> 5428

<211> 583

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-K6-C1

<400> 5428

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 cctccttgc cctccttgc ctttcagcaa gcgctgctac ctctactatt attccacaat 120
 gtcacaaca atacctctct ccggtgacag ccgcgggatt tcaacaccca actatacaat 180
 cctacatgct acatgaggcc atcgtagcaa gcatcttacg gtcattagca ttaaccctcc 240

aacagccata tgccttattg caacaaccat ccttagtgca tctgtatctc caaagaatcg 300
cgacacaaca actacaacaa cagttgctac caacaatcaa tcaagtagtt gcagcgaacc 360
ttgctgctta tctccagcaa caacaatttc ttccattcaa tcaactagct ggggtgaacc 420
ctgctgtcta cttgcaggca caacaactac taccatttaa ccaacttgct gggagccctg 480
atgccttctt actgcaacaa cagcttctgc cattccatct gcaagctgtg gaaaacattg 540
cttctttctt gcgacaacaa caattgttgc cattttaccc aca 583

<210> 5429

<211> 597

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-109-Q1-K6-C6

<400> 5429

ggaacaacag cacatanaag tggaatccag tagcaacaat agagcaacaa tggcgaccaa 60
gatattttcc ctccattatgc tccttgcctt ttctacatgt gttgctaacg cgacaatttt 120
ccctcaatgc tcacaagctc ctatagcttc cttcttccc ccataccttc catcaattat 180
agcttcaata tgtgaaaacc cagctcttca accatatagg cttcaacaag caatcgcagc 240
aagcaacata cttttatcgc ccttggtgtt tcaacaatcg ccagccctat ctttggtgca 300
gtcattggta caaaccatca gggcacaaca gctgcagcaa ctctgtctac ctctgatcaa 360
ccaagtagct ctggcaaacc tttctcccta ctctcagcaa caacaatttc ttccattcaa 420
ccaactgtct aactgaacc ctgctgctta tttgcagcaa caactattac catttagcca 480
gctagctact gcctactctc agcaacaaca acttcttcca ttttaaccaat tggccgcact 540
gaaccccgct gcttatttgc agcagcaaat actactacca tttagccagc tagctgc 597

<210> 5430

<211> 579

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-109-Q1-K6-D1

<400> 5430

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 gaagacgacg acggccgccc tcgccccggc caccaccgcg ccggcgctgc ctgaacggtc 180
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 ccagttcgac gacacgttct ggtcggagac gctgtccatg ccgctggaca gcttcgacga 360
 cgtccccacg gagccctgca gctccggcgc gtctggcgac gtggccgnc tctcctcctc 420
 ctcgtcggtt ggccgacg ccgacttga ctactggctc ggagtgttca tgaagtccgg 480
 cgacgctcac caacaactgc cgcnagttaa gagcgcgcac gcgcgcccga gaattttcag 540
 ttccctggct aattgattca tcggtctttc tctttccct 579

<210> 5431

<211> 585

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-109-Q1-K6-D12

<400> 5431

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 aatcgcaaan gggccgtctc atccgagtta aggaagccat ggagcacaag gaggctgggt 120
 gccaggcccc cgagggaccc atcctctgca tcaataactg tggcttcttc ggcagcgcg 180
 cgaccatgaa catgtgctcc aagtgccaca aggagatgat aacgaagcag gatcaggcca 240
 agctggctgc ctctctatc gacagcatcg tgaacggcag cgacgcgctc atggagccgg 300
 ttgttgctgg cagcaacacg gtagtagctg ttgccaagt tgagttgcaa acaatgaacg 360
 tgcagcagcc cgctgatgtt gccggacca gcgagggggg ggccggcgatc tccaaagggg 420
 gaaggtaggg ccgaaccggt gcagcgctg caggaagagg gttggactta cgggattcaa 480
 ctgccggtgt gggaacttgt actgcgcact ccaccgctac tccgacaagc acgactgcaa 540
 gttcgactac cggactgctg ccagggacgc cattgccaa gctaa 585

<210> 5432

<211> 485
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-109-Q1-K6-D5

<400> 5432

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catt8n8ttcg cctgcaatgg cn8tcgcaag n8ctcctnat nagn8cttnc ctctttcttt 180
ctctctccgt nacc8tn8ct cac8nc8n8nagc ggg8t8gt8gcgg ggg8gt8gagt gggannnaaa 240
cccaattncn nt8tcaaccct tacaggnnat ccaatcag8nn gcaatcacca gtctggcact 300
cn8ttacctt ttat8nc8cacc cctt8gt8n8tc ctccaacaaa t8actcagtc ccgttattac 360
actcatgtta ccctcttngg gtgcatgtta cttggggcac aaaacn8atc agggcacaca 420
ccaactacca acaacctttg tgcttagcag atacctctgc tgctctactc ttttcagcaa 480
cagca 485
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<210> 5433
 <211> 492
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-109-Q1-K6-D6

<400> 5433

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ccttgggtatt tctgcaagtg ctgctacggc gaccattt8tc ccgcaatgct cacaagctcc 120
tatagcttgc cttctttccc cttacctctc accagcgg8tg tcttgggggt ttgaaagggc 180
gattcttcaa ccctacagga tccaacaggc aatcgcagg8t ggcatcttac ctttatcacc 240
cttgttcctc caacaatcat cagccctatt acaggagata cctttgggtgc atttattggc 300
acaaaacatc agggcacaac atctaccaca actcgtgcta gcaaaccttg ctgcctactc 360
tcagcaacag gagtgtcttc cattcaacca attagctgca ttgaactctg cttcttattt 420
gcaacaacaa caactactat tcagccagct t8c8tgtt8gcc t8ac8ccgaac aatctttttc 480
atctaacc8aa ct 492
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<210> 5434
 <211> 586
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-109-Q1-K6-E12

<400> 5434

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 tctagtacgg cggcgggtgcg gaaggggaag tcatgcaagg gctgcctcta ctactcgtca 120
 gtgctcaagt cccgcgggta caaccaatc tgcgttggga tcccccgctc catcccccaa 180
 gttcctaact acgtgggtgga tgaacctaaag gaggaggcga cggcgcaggg gcatgacctc 240
 aggcgggttca ggtacgggtg cgcgggttac tccatgttcg tggacaacag ggacggccag 300
 ggtggtgaga gcgagggcaa gacgttggtg ccatattgca ggggcctcga gttattggtg 360
 gacagcagat tggtcgagag aaagccatcg gcaactgaac aagctccagc acatgttgca 420
 aaggatgcag cagctaccat ccgctctcac caacaaggac aacagagacc tcagaacttg 480
 tcgaggcagg aattcttggga cagggttaag aggagcgcgtg gactggtcgc ttcagggtgtt 540
 gcgaagaatc taaacaaaac agccaattat atcaaagaaa atattc 586

<210> 5435
 <211> 606
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-109-Q1-K6-E2

<400> 5435

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 ctctctctat ctccctctct ctagctcccc atgcagcagc agccccccct cccttgagc 120
 tagcgaccga gccctcccat gctcctccct caccttgga gctcttccat ggcgtcacc 180
 cctcctctac ggtagcaagg ttaggaccg agagatgctg atcgtgcaag tgatgaggtg 240
 ccaaccacaa gatgcagttg gtggatgacc tgaagaatgg tggaattaac cagtggatgc 300
 tcgccaagcg agtatcccc agcaaacact atctaagtgt taaattaaag gtacctcctt 360

gattggttgc tgggtgtgact tgaccttcat ccttgccacc gggacagatg gtcgagaggg 420
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 gttttctccc cgaagatcct gaagaaagaa acaccttcag cagtgccgaa gctatcacct 540
 ataaagcttc ggcataatga catgnttcaa gacaaaggag tgaaccgact taaagatgaa 600
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<210> 5436

<211> 615

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-109-Q1-K6-E3

<400> 5436

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 tatctaactc caaaaccatg aagctggtgc ttgtggttct tgctttcatt gcttttagtat 180
 caagtgtttt ttgtacacag acaggcggct gcagctgtgg tcaacaacaa agccatgagc 240
 agcaacatca tccacaacaa catcatccac aaaaacaaca acatcaacca ccaccacaac 300
 atcaccagca gcagcaacac caacaacaac aagttcacat gcaaccacaa aaacatcagc 360
 aacaacaaga agttcatggt caacaacaac aacaacaacc gtagcaccnc caccaacaac 420
 aacaacnaca gcaccaacaa cancatcaat gtgaaggcca acaacaacat caccaacaat 480
 cacaaggcca tgtgccacaa cacgaacaga gccatgagca atttcaagga cagagccatg 540
 agcaacanca tcaacancaa ttccagggtc atgacnagca gcaacaacca caacagccta 600
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<210> 5437

<211> 594

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-109-Q1-K6-E8

<400> 5437

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 ctttctgcaa gtgctgtac ggcgaccatt ttcccacaat gtcacaagc tcctatagct 120
 tcccttcttc ccccgtaact ctcaccaacg gtgtcttcgg tatgtgaaa cccaattctt 180
 caaccctaca ggatccaaca ggcaatcgca gctggcatct tacctttatc acccttggtc 240
 ctccaacaat catcagccct attacagcag ttacctttgg tgcatttatt ggcacaaaac 300
 atcagggcac aacaactaca acaacttgtg ctagcaaacc ttgctgcta ctctcagcaa 360
 cagcagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta tttgcaacaa 420
 caacaactac cattcagcca gctatctgct gcctaccccc agcaatttct tccattcaac 480
 caactgacag cattgaactc tcctgcttat ttacagcagc aacaactact accattcagc 540
 cagctagctg gtgtgagccc tgctaccttc ttgacacaac cacagttggt gccg 594

<210> 5438

<211> 590

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-109-Q1-K6-F6

<400> 5438

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 ctcttatgc tccttggtat ttctgcaagt gctgctacgg cgaccatttt cccgcaatgc 120
 tcacaagctc ctatagcttc cttcttccc ccgtacctct caccagcggg gtcttcggta 180
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 cctttatcac ccttggtcct ccaacaatca tcagccctat tacagcagtt acctttggtg 300
 catttattgg cacaaaacat cagggcacaa caactacaac aacttgtgct agcaaactt 360
 gctgctact ctacagcaaca gcagtttctt ccattcaacc aactagctgc attgaactct 420
 gcttcttatt tgcaacaaca acaactacca ttcagccagc tacctgttgc ctacccccaa 480
 caatttcttc cattcaacca actggcagca ttgaactctc ctgcttattt acagcagcaa 540
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<210> 5439

<211> 607
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-109-Q1-K6-F8
 <400> 5439

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gttcttgctt tcattgcttt agtatcaagt gtttcttgta cacagacagg cggctgcagc 120
tgtgggtcaac aacaaagcca tgagcagcaa catcatccac aacaacatca tccacaaaaa 180
caacaacatc aaccaccacc acaacatcac cagcagcagc aacaccaaca acaacaagtt 240
cacatgcaac cacaaaaaca tcagcaacaa caagaagttc atgttcaaca acaacaacaa 300
caaccgcagc accaacaaca acaacaacaa caacagcacc aacaacaaca tcaatgtgaa 360
ggccaacaac aacatcacca acaatcacaa ggccatgtgc aacaacacga acagagccat 420
gagcaacacc aaggacagag ccatgagcaa caacatcaac aacaattcca gggtcatgac 480
aagcagcaac aaccacaaca gcctcagcaa tatcagcagg gccaggaaaa atcacaacag 540
caacaatgtc attgccagga gcagcaacag actacaaggt gcagctataa ctactatagc 600
agtagct 607

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<210> 5440
 <211> 597
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-109-Q1-K6-G2
 <400> 5440

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tggcaagaaa aaaccgtcga ccctttctct aagaaggatt ggtatgacat caaggcaccg 180
tcggtgttca gtgtgcgcaa catcggaag actctcgtat ccaggacaca gggtagcagg 240
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gacgaggatc aagcttacag gaaaatcagg ctccgtgctg aagatgtgca gggcaggaat 360
gtgctcacia acttttgggg catgaatctt accactgata aactcagatc cctagtgaag 420

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aagtggcaga cattaatcga agcccatggt gatgtcaaga caaccgacaa ctacatgttg 480
 cgtntgttct gcatcggctt taccaagagg cgcccaaacc aagtcnagag aacctgctat 540
 gctcaggcat cccagatccg tcagatccgc cgtaagaagg ntgagattat gatcaac 597

<210> 5441
 <211> 595
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-109-Q1-K6-G7
 <400> 5441

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 agcaacaatg gcggccaaga tattttccat ccttatgctc cttgctcttt ctgcatgtgt 120
 tgctaacgcg accatttttc ctcaatactc acaagctcct atagctgccc ttcttcccc 180
 ataccttcca tcaatgaccg ctttagtatg tgaaaaccca gcccttcaac cctacaggat 240
 ccagcaagca atcgcaacaa gcaacttacc tttatcacac ctgttctttc aacaatcgcc 300
 agccctatct ttggtgcagt cattggtaca aaccatcagg gcagaacagt tgcagcaact 360
 cgtgctacca gtgatcagcc aagtagctct ggcaaacctt tccccctact ctcagcaaca 420
 acaatttctt ccattcaacc aactgtctat actgaaccct gctgcttatt tgcagcaaca 480
 acaactacta ccattcagcc agctagctac tgccctactct cagcagcaac aatttcttcc 540
 atttaaccaa ttggccgcac tgaaccctc tgcttatttc cagcagcaaa tacta 595

<210> 5442
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-109-Q1-K6-H11
 <400> 5442

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 caccagcacc gccagagctt gggggccatg gggcatcgag agcggcacac gtttctgcat 120
 caccgcgccc atcggcagca gcatcgtggg attctatgga cgcgcgacga ccaggctcgt 180

cgctgcatc ggtgtctacc tgcgccaact ttagtctggt ttcagcagca ggacgggtac 240
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 tcgatcgctg tcgtgtctgt atgtacatac atgggtgtca aataaagctc tttgcatttt 360
 gataaagatt gacaccaccc aaaaacanan na 392

<210> 5443
 <211> 558
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-109-Q1-K6-H4
 <400> 5443

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 catcttgaca gacgcaagct tcaagaatga ggaggccacg gagcagggtg gcaagggtgaa 120
 gattgtggca tgtgattcca aattgctcgg acaataggcc tgtgtaccct cgagggtcaag 180
 gaaggaagct tttaagtgcg gcgaggcggg gtctgtctgc gcgtcagctg tacacgccta 240
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 ggcatttcat ttgccttctt cgtactgtat gtgtatcttc ttttttcccc ttgtatacaa 360
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 tgtttttacc tacttgggtg agcgctgtg taacagtttt cgatcgctct tgcttgttgt 480
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 tagatgtcca actatagc 558

<210> 5444
 <211> 149
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-109-Q1-K6-H8
 <400> 5444

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 cccagaaaaa gaaagtcatt tctagattc 149

<210> 5445

<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-A1

<400> 5445

cacgcctgcg tgtaccgggc cgctaattac acggtcgacc tagtctagca taacaagtcg 60

aactataacg tgataataaa atctacaaaa agtggcagcc accaaaggat ggg 113

<210> 5446

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-A10

<400> 5446

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acttaatagc cttgaacatc aagcgtctat cctgagggtgg cttaatagtg aacaaactca 120

cattaattgc ctttcccaaa atgtccgctt tctaaatggg aaatgggacg cgccatgtag 180

attaataaaa agcgcaacgc gcgtggagag tacgctcacg tataccgcta cactgggcat 240

cttcttatca ccagctagat tggctatatt tgattgcttt ttaccactg tccctggatg 300

agccccacaa agtctaacac gctggcttgc tttaggaggc caaaatactg ctttacggtg 360

gctaaacccc aaaataacaa gaactgtgat gggtcacgta gtgtgcc 407

<210> 5447

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-A11

<400> 5447

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aacaagctcc tatagcaaca ctttcttgct cgataatcta agcagcggga atgggtcaatg 120

atgtgaaacc ccaattgtac gaacctaca ggtatccatc aggcagcagg tacaaccata 180

acaaccatta ttaccctagg aactccaaca acctcaaac atattacagg atgaaccttt 240
ggaccatttg gtgggtgcaa taatcagggc acaacaactc caacaacttg tgctatcaaa 300
ccatggtgca tactctcaac aacattagct tgctgcattg aaccaactgg ctgcaataaa 360
actct 365

<210> 5448

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-A3

<400> 5448

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atataacact agggcttaca acaaccagct ggcttattac aacaagtacc tgctgttcat 360
aataaggcac aaaacataag ggtgacaaca acgtacgaca acaagaaata gctgaagggt 420
ggtgaatact a 431

<210> 5449

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-A5

<400> 5449

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gacacatgca gcaaaccctg ctgactactc acaacaagag gctgccattc aaccaacctc 180
atgtgtcaaa ctctgctgcg tacctacaac agcgacaaca gttacttaat gcactgacag 240
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311

<210> 5450
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-A6

<400> 5450

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cttaatctac tggtttatag ctcgagggaa cttgatcgac cacctctaac atatgttggt 180
acctatgctt cggctctact ttctgtgggg tgagccttaa ccctcatctg gagaaggga 240
cgaagacata ctgccttaga cttgaccatt ccactctggat ccacatacct ggcaatgctg 300
tccaatggat gctgcatgcg atc 323

<210> 5451
<211> 522
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-109-Q1-N6-B11

<400> 5451

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accattcage cagctacctg ctgcctaccc ccagcaattt cttccattca accaactggc 180
agcattgaac tctcctgctt atttacagca gcaacaacta ctaccattca gccagctagc 240
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tttgacaaac ccagcagcgt tctaccaaca acccatcatt ggtgggtgcc tcttttagat 420
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ataagaaagt acatttcttt cttnnaaaaaa anannnnnan aa 522

<210> 5452
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-B2

<400> 5452

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tgaacggata gaatacatgg actggcacag catgctgaat agcctcaaat taaatcaacc 180
cagaagactt acgcaccttt ctgttttctc agaactgttt cctcgcgctc cccacgataa 240
actgtgctgc gagcaacttt tgacacttct gaccgcactg tttgtcaaat cagaacactg 300
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ccagggccga ccctctaa 378
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<210> 5453
 <211> 488
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-B6

<400> 5453

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ctcctggtaa cgcgctgctc aggttactag atctggtgag tcaccgttca gagttgggtt 180
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tttcaaactg aatatgaggt tgtctctatc agcagcaagg gaagaaaact tgacggttaa 360
tcttgaaga tggcgagtgc tctatcttgg agacttggaa gatggcgaat cttggaagaa 420
caatcaaaag aatggaaaca ccttgccaca gtaatagcgc cagaacagtc gtcgatggct 480
tcaagctc 488
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<210> 5454

<211> 654
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-109-Q1-N6-C1
 <400> 5454

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gccctagcac gctcttttaa caagcgctag atacctaata ctattataac cacactgcct 180
caccaacaat ggctgatct gccggtagaa cgagcgcgac ggatatcttc aacagcccaa 240
ctatctcaaa tgctacatgc tacatgaggc catagaagga agcattttac ggccattagc 300
gttgacccta cgacagccat atgccctatt gcaacaacca ttcttagtgc atccgactct 360
ccaaagaatc gggacacaac agctgcgaca acagtagcta ccaacaatca atcaagttgg 420
tgcagcgaac cttgctgctt atctccagca acaacaattt cttgcattca atcaactagc 480
tgggagtgaa cctgctgtc tacttgcagg cacaacaact actaccattt aaccaacttg 540
tcgggagccc tgatgccttc ttactgcaac aacagcttct ggcatccat ctgcaagctg 600
tggaaaacat tgcttcttctt ttgcgacaac aacaattggt gccattttac ccac 654
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<210> 5455
 <211> 641
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-109-Q1-N6-C12
 <400> 5455

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ctgcctgggtt atatatatg acagagactg ttgaatgcag atgccctgcc actgctcatg 180
actgaagggc ttggacggat ctgacgccag actccacgac gatgatgggc gccagctggc 240
tataccctc acgcgactga cctgaagcac ccatagtga gatggtttgc ggcatcacca 300
tactactgcc gggtagagacc atgacgatcg caatatacca tgctgttcgt gaacaatact 360
tgcatcagac aatcaggatg atggacgagc agtacgctca acatgaatta taaattataa 420
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ttcatgttga acggaccgct cgcgcaagaa gctgatttgg cgatccaact attattcacc 480
agaaggatag ccattggcac tccactgtct caaccccatg gacatggatg atcgcccaca 540
acatgctgga cttgggttga ctctagcatn accagtacga gttgagcagg taccggacca 600
tacatctgtg gcaggtccgc tccaattccg tactagtact g 641

<210> 5456

<211> 506

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-C2

<400> 5456

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tgccctttca tgagagcgca aatgaaaaca ttgtcccaca aagctgagtt gctgctaggg 180
ccgtgttata aaagatatg cacgaatggc ttcaatgggc tttgctcatt caggcaaggc 240
aagcatacat ggtacaacta gtgcttgccg agagagcctc agaacaacct gttgcccaat 300
cgcaacaaca attctcgcaa catgtaacct tacaaccat tgcaagcgga acaacaagca 360
actagcatca tgtcactgcc atctctgata cagctagccc aggtgaacct tgcaacctac 420
ttggaacagc cgttgggtgc ttgcaaccga ctagctctgt cgaacaaagc tgcataccag 480
caacaacaac aggtgcaaca gtttat 506

<210> 5457

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-C3

<400> 5457

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aattatgggc cttcgaagcc attggtttta tgccgcagga tccatggacg atagatgaac 180
tattgggcac tctcccctcg gttggtgaac aactaaaccg ttttttcagt ctgcggggga 240

cgcaagaata acttgcgctt cttgtggcac atctctgaga ggatcttgat tacacaacgt 300
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<210> 5458

<211> 602

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-C6

<400> 5458

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taaagtctca cagctgctga tagcttgcct ttttccaaca tacctggaca taagaggata 180
cacttgaata tgtgtaaaac caaggctctt caaccatata ggcttcagac agcaatcgga 240
caagcaacat acctttatcg accttgttgc ttcaacaatc gccagcccta tctttggtgc 300
agacattggg acaaaccatc agggcacaac agctgcagca actcgtgcta cctctgatca 360
accaagtagc tctggcaaac ctttctccct actctcagca acaacaattt cttccattca 420
accaactgtc tacacgtgaa cctgctgct tatttgcagc aacaactatt accatttagc 480
cagctagcta ctgactactc tcagcaacaa caacttcttc catttaacca attggccgca 540
ctgaaccccg ctgcttattt gcagcagcaa atactactac catttagcca gctagctgca 600
gc 602

<210> 5459

<211> 638

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-C8

<400> 5459

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tgaaaggact gctacagcaa cgcattccacc caggatgggt cgaagggtaca aactgttgg 180
ttttgccaaa gcacgtttga ccaatggcgg ctattgtatg agaaaacaca aggctccaac 240

cctacgggaa ccaacctgga ataacagctg caattgttac ctgttatcac acattggtat 300
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aacatcaggg cacaacaact acaacaacta gtgctagaaa accttgctgc ctactctcag 420
caacagcagg aactgccatt gaaccaacta ggaacattga actctgctta ttatactgca 480
acaacaacaa ctaccataac agcagctacc tgctgactac cccagcaat ttcttacatt 540
caaccaacta gcaggatgag aactctctg ctgatctaca gcagcaacaa ctactaccat 600
gtcatcagct agctgatgtg agccctgcta ccttcttg 638

<210> 5460

<211> 677

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-C9

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tgcgcttttt gcgagcgcaa caaatgcgtt cattattcca caatgctcac ttgctccaag 180
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gttgcaacaa caatccttgg cacatctaac aatacaaac atcgcaacgc aacagcaaca 360
acaattccta ccagcactga gccacctagc catggtgaac cctgccgcct acttgcaaca 420
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cctacaacag caacaactgc ttcatctag ccgctcgt gtggccaatg cacctacata 600
cctgcaacaa caattgttgc aacagattgt accagctctg actcagctag ttgtggcaaa 660
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<210> 5461

<211> 638

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-D11

<400> 5461

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ttatgctccc tgccctttct ggcagtgtcg ctacaacaca ccatttttcc gcaatgctcg 180
caagctccta tagcttacct ttttcccccg tacctgtcac caacgggtgtg ttccatctgt 240
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tttcacactg tgttcctcca acagttatta gacatattac aacaattacc ttctgtgcat 360
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gcctactctc aacaacaaca gtttcttaca ttcaaccaac taggttcatt gaactctgct 480
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tgtcttccat tcaaccaact agcaacattg aactctcctg cttatttaca gcagcaacaa 600
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<210> 5462

<211> 556

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-109-Q1-N6-D12

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gggtgccagg cccccgagg acccatcctc tgcatacaata actgtggctt cttcggcagc 180
gcggcgacca tgaacatgtg ctccaagtgc cacaaggaga tgataacgaa gcaggatcag 240
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ccggttggtg ctggcagcaa cacggtagta gctgttgccc aagttgagtt gcaaacaatg 360
aacgtgcagc agcccgtga tgttgccgga cccagcgagg ggggtggcggc gatctccaaa 420
gggggaaggt agggccgaac cgggtgcagc cctgcaggaa gagggttgga cttacgggat 480

tcaactgccg gtgtgggaac ttgtactgcg cactccaccg ntactacgac aagcacgact 540
gcaagttcga ctaccg 556

<210> 5463

<211> 660

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-D2

<400> 5463

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atgtgttcca ttcaaccaac tagcagcatt ggactctgct ggtcatttac agaatgatca 600
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<210> 5464

<211> 575

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-D4

<400> 5464

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gatgaggact tcgagggtag atggatcgtc tccaagaaga tgaataccaa ggtgtatgcg 180
aagcatgcca agagtgatgg gcatgaggac tatggcctcc ttgttagtga caaggcaagg 240

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 attatgtttg gtccagataa atgtgggtca accaacaagg ttcatttcat ccttaagcac 480
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<210> 5465

<211> 647

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-D5

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<210> 5466

<211> 532

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-D7

<400> 5466

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 ctcatagggt ttatgcagca ggatcacatg agatagctga actgtgggga actctcccgt 180
 cggttcgtga acaactaaac cgtgatgtca gtcacacgca gacgcaagaa taactggcgc 240
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 gtggtttcta caacgaaatg actgtgaaaa cacagttgca cacaacataa aacccttagg 360
 aatacattgt aaagtctgca gttgctaatt agtgaaatag tcaattcaat gggccttgct 420
 aactgtcgcg catccagaat ggaaaacggc gcctgctgct gcattaatta attacgcac 480
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<210> 5467
 <211> 567
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-109-Q1-N6-D9

 <400> 5467

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 caacgtcaag gttgacaaag ctatctggga ccacttgtgt aattgccaac tgtagactgc 180
 attattatag ctatatgttg ctccagaata aatgcgcac atagtgcggc ggtcatggca 240
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 tgacctttct tgcgacaagc accactgaca gccccgaaa tgcccatga cggggacact 360
 aaggtgaaac cttccagttt tctctacgaa aatctaccag tgccggattg atttagtcag 420
 caccattgga cacacagggt agcctcatcc cctgaacca tcaaagaatc atggtgcaa 480
 cgactcgatg gttctacttc aagaggctga tattctccac gactgttggt agcatccctg 540
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<210> 5468
 <211> 458
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 5468

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attatgaccc ttgaagatag caacaaccgt taacattatt tcagtagtta ccttgggtcc 180
attggggggg aaaaaacata acggcacaaac aactacaaca tcttgtgcta gcaaaccctg 240
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gctgcttatt tgcaacaaca attaccattc agacaacttg ttgctgccta cactcagcaa 360
tatgtttcat tcaaccaact agcagcnatt gaactctgct gcttatttac agcagcaaca 420
actactacca ttcatgcagc tatctgatgt gagccctg 458

<210> 5469

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-E2

<400> 5469

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agctctagca agacggttca tctattcttt agcgcagggc acaacctgag cgaaataacc 240
tttatgcctt tgacaagagg tgacaaccac aacatactat catgggatga tcggacatat 300
tgatgttaaa aaccagtgcg tgcttgccat tgaaacatgc cataatgcac actatttaat 360
aggtgatatg atagggacct gcttgatggg ttgctgtcgt gacgagccct tgatacaaaa 420
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<210> 5470

<211> 236

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-109-Q1-N6-E5

<400> 5470

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aaattttttt gccccggggg acccccccaa acccccccaa aaaaaaaaaa aaaaaaacc 180
ccccccctt aaataaaca ccaaaaaccc cccccccnc ccccaaaanc cccac 236
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<210> 5471

<211> 555

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-E6

<400> 5471

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cttgcgcttt ctgcgagacg cgacaaatgc gaacatgac ccacaacgct gacttgctgc 120
tcatgtccat gtactaggca tcagattact gacacaccgg tacgtttggt gagccttcga 180
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caacgcaaca gcagcaacag ctctaccag cactgagcca cctagccatg gtgaaccctg 360
tcgcctactt gcaacagcag ctgcttgcac ccaaccact tgctctagca aacgtagtgt 420
caaaccagca acaacaaca ctgcaacagt ttctgccagc gcttaggcaa ctagccatgg 480
tgaaccctgc cgcctaccta caacagcaac aactgctttc atctagcccg ctgctgtgg 540
ccaatgcacc tacat 555
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<210> 5472

<211> 606

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-E7

<400> 5472

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 aattaccatt cagccagcta gttgctgcct acccccagca atttcttcca ttcaaccaac 540
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<210> 5473

<211> 620

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-E8

<400> 5473

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 tgagctgtta cagagaccat tgaggccaca cagctcacat gctcctatgg cttacctttt 180
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 ggcacaacaa ctacaacaac ttgtgctagc aaaccttgtc gcctactctc agcaacagca 420
 gtttcttcca ttcaaccaac tagctgcatt gaactctgct tcttatttgc aacaacaaca 480
 actaccattc agccagctat ctgctgcta ccccagcaa tttcttccat tcaaccaact 540
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<210> 5474

<211> 524
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-E9

<400> 5474

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gcaacaacaa caactaccat tcatgcagct acctgctgcc taccgccagc aattttcttcc 420
attcaaccaa ctagcagcat tgaactctcc tgcttattta cagcagcaac aactactacc 480
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<210> 5475
<211> 589
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-F12

<400> 5475

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attgtaggca tcttacctat atcacccttg aaactgcacc accgaaagac gtattacagg 180
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actaacccca acaatttatt gcattcaacc aactgacagg aataaactct ggtgttatgt 420
acaacatcaa cagctaccac cattcagcca gctagctgat gtgagccctg taatcttctt 480
gacacaacaa caggagtaaa cgttctacct gcacagtgcg cctaacgctg gcacctcat 540

acaactgcaa caattgctgc cattaaccca acttgctttg acaaaccga

589

<210> 5476

<211> 629

<212> DNA

<213> Zea mays

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<400> 5476

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ttgaactata tcgtaatagc agatacaaag aagataccac cacaggctcg gacaggctgc 180
taaagtgtgc ttggtttgcc aaaacctgtc accaacaagg tattaattgt gggaaaaccc 240
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ctaggtacta caacattaca tccagcctta ttacatgaat gacctttggg gcattgattg 360
gcacaaaaca tcaaggcaca acatctacaa caacttgagc taacaaacct tgctggctac 420
tctcaacaac agcagctgat tgcattcaac caactagggt cattgaactc tgattcttat 480
ttgctacaac aacaactacc attaaaccag ctatctgctg gctaccccca gcgattgctt 540
gcatacaacc aactgacagc attgaactct gctgcttatt cacagcagca caactactac 600
cattcaaaca gctatctgga gtgagccct 629

<210> 5477

<211> 605

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-F6

<400> 5477

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tcgatactat tacttgtaag agacatgtta cagagaccac accccgcatg ctcacaggct 180
gatctctgtt acgttcttca aacgaacctg tcaccatggc agtatttggt gtatgaaaac 240
caagttgtca aaccctacag catccaacat gcaaaacgag atcacctggt accttgataa 300

cactggatcc tgcatacaca catcatacct attacaatag ttaccttttg tgcattctatt 360
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 atttgcaaca acaacaacta ccaatcagcc agctacctga tgcctacca cgacagctac 540
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 tacca 605

<210> 5478

<211> 601

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-F7

<400> 5478

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 ccaatccgcc agtggtggca cacattcctt ggcacatcta acaatacaaa ccatcgagc 180
 gcaccagcaa caacggttgc taccagcact gagccaccta tccatggtga accctgccgc 240
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 atgcacctac atacctgcaa caacaattgt tgcaacatat tggaccatct ctgactcagc 480
 taggtgtggc aaaccctgct gctacttgc aacagctgct tccattcaac caactgacta 540
 tgtcgaactc tgctgcgtac ctacaacagc gacaacagtt acttaatcca ctaaccagc 600
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<210> 5479

<211> 604

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-F8

<400> 5479

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 gtcaacaaca aagccatgag cagcaacatc atccacaaca acatcatcca caaaaacaac 180
 aacatcaacc accaccacaa catcaccagc agcagcaaca ccaacaacaa caagthcaca 240
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 aacaacaaca tcaccaacaa tcacaacgcc atgtgcaaca acacgaacag agccatgagc 420
 aacaccaagg acagagccat gagcaacaac atcaacaaca atthcagggt catgacaagc 480
 agcaacaacc acaacagcct cagcaatatc agcaggggca ggaaaaacac aacagcaaca 540
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<210> 5480

<211> 574

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-F9

<400> 5480

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 ggacaagtac gagcccgttc gcgagatcgg ggcgggcaac ttcgggggtgg ccaagctgta 120
 tgaggaacaa ggacacgagg gagctggtgg ccatgaattc atagctcgag gaaacagatc 180
 gacgagaacg tgttcggga gatcgtaac caccggtecc tccgccaccc caacattatc 240
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 ggcgggggagc tgggtccagc catgtgccac gccggggcgg ttcacgagga cgaggcgcgc 360
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 cgtgacctca agctggagaa cacgctggtg gacggtagtc cggctccgtg cctaaagatc 480
 tgagactcca ggtactgcaa gtgctctgtg ctgcactcac gaccgaagtc aacggtgggc 540
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<210> 5481

<211> 559
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-G12

<400> 5481

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tctgtgactc ataaacaatc tgaacagggc accaccacag catgggctgg cggaccaaca 180
ctgatactct tagcaaaata agttgggtga atggaaccaa ctgtgctgaa ttgtaaacta 240
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actactacca ttcaatgcat ctagcttgat gtgaagccct agaaatcttc ttgacacaac 420
aacaactagt ggcgttctac ctgaacgcta tgccctaacgc tggcaccatc taacaactgc 480
aacaattgct gacattaaaa caacttgctc tgacagactg aacagaggtc taccaacaac 540
ccatgattga tggggccct 559

<210> 5482
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-G2

<400> 5482

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ccctttctct aaaatagatt ggtatcacat caaggcaccg aacgagttca gtgtgcgcaa 180
catctgcaag actctattat ccatgacaca ggctaccagg attgctcttg cgggcctgaa 240
gcacacgtct ttaacgttcg tctagctgat cttaacggcc acgaggatca agcttacatg 300
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atgaacctta ccaactgatga acgaacatcc ctacaga 397

<210> 5483

<211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-109-Q1-N6-G3

 <400> 5483

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 ttggtggccc ttggccaact tggtttggg ggacccgagg gcttcttaca aaaaacatta 180
 tttggggggc cccttttta aatgggtaat aaggggcaac caaaaaaaaa agtttttggg 240
 agaaggccgg gggcctccca aaaaaggag gtacaatggc caaaaatttt gattttttta 300
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 gggggggggc ccccggggaa tcaa 384

<210> 5484
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-109-Q1-N6-G7

 <400> 5484

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 gattgaaaca aaccatgggg tcagaacagc caattgaact aatgctacaa atgatcagtc 180
 aagtaactct ggcaaacctt tccccctact ttgagcaaca acaatttggt gcatttaacc 240
 aactgggttt ac 252

<210> 5485
 <211> 598
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-109-Q1-N6-G8

 <400> 5485

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tgccagcgcc tctgcatgca gtatgccttg cccctgcgcg gggctgcagg gcttgtacgg 180
cgctggcgcc ggctgacga cgatgatggg cgccggcggg ctgtaccctt acgcggagta 240
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ctaccagtac cagtaccagc tgcccagcta ccgcaccaac ccctgtggcg tctccgct 598

<210> 5486
<211> 485
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-109-Q1-N6-H1
<400> 5486

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gtcgttcttg ccggccgcgc ctcacctccg ccctctcttc ctccagggga tcggatacgc 180
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cgacgacgag gccatatgct ggggaattgc atattgtgtc aagggtggtc cagaaaaaga 420
gctaaaagca atgcagtact tggagagaag agagtgtgag ttccaccaga agatatccat 480
tgatt 485

<210> 5487
<211> 475
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-109-Q1-N6-H10

<400> 5487

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ttataacacg tgggtactgct acaaccatct agcctattac atgagatacc ttggggccat 360
tgggaggaac aaaacatgat gacacataca tctacaacia catgggctaa aaaaccttgg 420
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<210> 5488

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-H11

<400> 5488

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atcgagcgcg gtcacgttcc tgcatacccg cgcccatcgg cagcatgcat cgagcggatt 180
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tcatatgaca ctatcatgga cttatatgtt cgatcgtggc cccgtctgtc tgaacataca 360
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<210> 5489

<211> 554

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-H2

<400> 5489

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 atcagatatg ccgagcgctt gcttatatac ataactgcat tggcatctgc caccgtgata 180
 tcaaaccgca gaatgttctt gttaaccac atacacacca actcaaaatt tgcgatttcg 240
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 gagtgcacca actagttgag atcatcaagg ttttgggtac tccaacaagg gaagagatca 480
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<210> 5490

<211> 612

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-H5

<400> 5490

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 gggggcacca ctacatgagg ggcgaacaac tacaacaact agtgctagca aaccttgctg 240
 catactcaga gcgccatcag ttgggtttcat tcaaccgact aactgcatcg aactctgctg 300
 gttatttaac gacaacaatt tccattcagc cagctagttg cttgctaccc ccagcaattt 360
 cttccattca accaactagc acaatgcaac tctgctgctg atttacagaa acagctacta 420
 ctacgcattc aaccagctag ctgatgtgag cctgctggc ttcttgacac aacaacacaa 480
 tgttgcccag tctacctgca cgctatacct aacgctggct cctctttaca actgcgacag 540
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<210> 5491

<211> 637
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-109-Q1-N6-H6

 <400> 5491

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 cgctcctata gctttccttg ttaccgaata ccttcgcata agtgataagc ttgcaggtat 240
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 gctgcatacc taaatgcacc cttggtgggt caacaatacg acagacctat ctttgggtgca 360
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 ccaactgtct aactgaacc ctgctgctta tttggagcaa caactattac cattcaaaca 540
 gctaaatact gcctactctc aacaacaaca acatgtttca ttttaaccaat tggccgcacc 600
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<210> 5492
 <211> 205
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-H8

 <400> 5492

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<210> 5493
 <211> 595
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-109-Q1-N6-H9

<400> 5493

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actcacaact aataagtaat ctaaaaaagc gcaccaccaa tgatggcctt agggtaggaa 180
aaccacgctc ttgacacctc taggctcaca caagccaaca caggaagcaa catacctagg 240
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aacacctttc tccctactct caccaacaac aaaatcttac attcaaccaa ctgtctacac 420
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<210> 5494

<211> 525

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-110-Q1-K6-A11

<400> 5494

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gctcctatag ctcccttct tccccatac ctctcaccag cgggtgtcttc aatgtgtgaa 180
acccaattg ttcaacccta caggatccaa caggcaatct caacaggcat cttaccataa 240
tcacccttgt tcctacaaca accgccagcc ctattacagc agttaccttt ggtccatttg 300
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<210> 5495
 <211> 342
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-110-Q1-K6-A12

<400> 5495

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atttaaacca attggccgca ctgnaacccc gctgcttatt tgcagcagca aatactactg   60
ccatttagcg agctagctgc agcaagtcgt gcttccttct tgacacagca acagttgctg  120
cctttctaca agcagtttgc ggctaacccc gcaacctctt tacaactaca acaattgttg  180
ccctttgtcc aacttgcttt gacaaaccca gcagcctcct accaacaaca catcattggg  240
ggtgccctct ttagattga ttattagttg taattcaata ataaagtttt ttggatgatg  300
tatgtggcca accagaaata agaagttaca tttccagatt ct                        342
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<210> 5496
 <211> 576
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-110-Q1-K6-A3

<400> 5496

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attcagnaana cacacctagc gaacgcacta gcaacgacct aacaacaatg gcttccaaga   60
cattatccct ccttgcgctt cttgcccttt ttgtgagtgc aacaaatgcg ttcattattc  120
cacaatgctc acttgctccg agtgccatta ttccacagtt cctccctcca gttacttcaa  180
tgggcttcga acaccagct gtgcaagcct ataggctaca acaagcgctt gcggcgagcg  240
tcttagaaca accaattgcc caattacaac aacaatcctt ggcacatcta accatacaaa  300
ccatcgnaac gcagnagcaa caagcactga gccacctagc cgtgggtgaac cctatcgctt  360
acttgcaaca acagctgctt gcatccaacc cacttgcttt ggcaaacgta gctgcatacc  420
aacaacaaca acagttgcaa cagtttctac cagcgctcag tcaactagcc atggtgaacc  480
ctatcgcta cctacaacag caacaacttc tttcatctag cccgctcgct atgggcaatg  540
cacctacata cctgcaacaa cagttgntgc aacaac                        576
```

<210> 5497
 <211> 585
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-110-Q1-K6-A4

<400> 5497

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tagcaacata catagtngaa tacactagca acatcttagc accaatggca gccaagattt   60
ttgccatcct tgccctcctt gctctttcag caagcggtgc taccgcgact attattccac  120
aatgctcaca acaatacctc tctccggtga cagccgcgag atttgaatac ccaactatac  180
aatcctacag gctacaagag gccatcgcag caagcatctt acggtcgtta gcattgaccg  240
tccaacaacc atatgcccta ttgcaacaac catccttaat gaatctatat ctccaaagaa  300
tcgcagcaca acaactacaa caacagttgc ttccaacaat caatcaagta gttgcagcga  360
accttgctgc ttacctccag caacaacaat ttcttccatt caatcaacta gctgggggtga  420
accctgctgc ttacttgtag gcacaacagc tactaccatt caaccaactt gtcaggagcc  480
ctgctgcctt cttactgcag caacagttgc ttccattcca tctacaagtt gtggcaaaca  540
ttgctgcttt cttgcaacaa caacaacaat tgctgccatt ttacc                    585

```

<210> 5498
 <211> 441
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-110-Q1-K6-A7

<400> 5498

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accagtcctc acataatcat cttcattcac tcaactcttt cgatcactgt gctngaanat   60
accatggcca agtcgaccgc gatgtttgta gccgccctgg ccttggtggt ggtgatggcg  120
acgacgagca caggcggtgg caggcgggca gcggcggtgc atcccaagcc gctggtggtg  180
tgcgatccgg cgttcatgga cggagcgaaa ccagcggcag catgctgctc caccctgcgt  240
gcgcaggagg catgcttgtg cgtgtacgcc aaagacccca agtttgcaaa atacatcaac  300
aaccccaaca ccgcaaaaac ctttacctcg tgcggcatag ccatcccaaa atgctaagca  360
agcgctctgc gtcgtcgtt cgcttgctct tgctcttggt tgtaacatat ccagcttatg  420

```

aataaattat gtggatcagt t

441

<210> 5499

<211> 592

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-K6-A8

<400> 5499

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ataccaaatt ccgtgtgcta cagcatttct cgagtgtat gctacatgtg ctatcaacac 120
agtccttgct gtttgctgca ggtttgcgac ctaccccggc gcaagcaact gctattctaa 180
aagatggaat gcagcacgca ggaaagctca tttgtagcag catgggtgca agaatggatt 240
ctgaaccaa gagttggagg atacttgctg atgttctcta cgatcttggg actgcattgg 300
aagttgtttc gccgctgtgt ccacaacttt tcttgaagt agcaggcttg ggaaattttg 360
cgaagggaat ggccgttggt gcagcaagag caacgaggct tccaatttac tcttctttcg 420
ccaaagaagg caatcttagt gatttatattg ctaaagggga agccatatca acacttttca 480
atgtcatggg aattggagct ggaattggat tggcatctac tgtttgttca acaactcaag 540
gcaagttaat tgcaggcccc ttactttccg cagtgcatat atatgggggc at 592

<210> 5500

<211> 604

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-K6-B10

<400> 5500

gtaccatccc gctcgaccgg ccaagtcagg ctccagctgc agaagaacgt cgtcgccgcc 60
gccgcctccg gggacgccgc gccagcgctt cccaagtacc ggggcctgct cggaactgcc 120
gccaccatcg ctagggagga aggggccgca gcgctctgga agggcatcgt cccgggcctc 180
caccgacagt gcctctacgg ggggctccgc attggcctct acgagcctgt caaatccttc 240
tacgtcggca aagaccacgt tggggatgtc cctttgtcca agaagatagc cgccggcttc 300
acaactggtg ccctcgctat cagcatcgcc aaccctactg accttgtcaa ggtcaggctc 360

caggccgagg gcaagcttgc gcctggtgtg ccacgccgct acactggcgc aatggatgct 420
tattccaaga ttgctagaca ggaaggggtt gccgctctgt ggactggcct tggaccaaatt 480
gtagcgcgga atgctatcat caatgctgct gagttggcca gttatgatca agtcaagcag 540
tcaattttga aactccctgg gttcaaagat gatgtggtca cccacctttt tgctggtctt 600
ggtg 604

<210> 5501
<211> 607
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-K6-B11

<400> 5501

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acaacaatac ctctctccgg tgacagccgc gggatttcaa tacccaacta tacaatccta 180
catggtacaa gaggccatcc aagcaagcat cttacggtea ttagcattaa cctccaaca 240
accatagct ctattgcaac agccatcctt agtgcactctg tatctccaaa gaatcgcggc 300
acaacaacta caacaacagt tgctaccaac aatcaatcaa gtagttgcag cgaaccttgc 360
tgcttacctc cagcaacaac agtttcttcc attcaatcaa ctagctgggg tgaacctg 420
tatctacttg caggcacaac agctactacc atttaaccaa cttgtcggga gcccttatgc 480
cttcttactg caacaacagc ttctgccatt ccatctgcaa gctgtggcaa acattgttgc 540
tttcttgaga caacaacatt tgttgccatt ttaccacaaa gttgtgggaa acattaatgc 600
cttcttg 607

<210> 5502
<211> 591
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-K6-B12

<400> 5502

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gcggcaccgg ctcaccagcg ataccaggaa gaatggggag gtacagtccc gcgtacagcc 120
 ccccgaggag aggacatggc ggcaggggaa ggagcccacc tcccaggaga ggatatggcg 180
 gtggccgtgg tgaccatggc tctgtcagcc tcctgggtccg caacattcca ttgagatgca 240
 ggctgagga actacgtgtc cctttcgaac gggtcggccc tgttcgggat gtttacctgc 300
 caagagatta tcacactggg gagccaagag gatttggggt cgtggagtgc gttgatgctt 360
 atgacgcttc tgaggcacag taccacatga atcgccagat gtttgctggg cgtgaaataa 420
 ctgttgact tgctgcggat acacggaaaa ggctgagga catgcgtaga cgaactggac 480
 caagaggtta ttctgggtcat gaaggcggtc gtccgaatcg tcatggtgca ggacgggtccc 540
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<210> 5503
 <211> 585
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-110-Q1-K6-B5
 <400> 5503

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 caagaacca gccccccacc atgacgagct cctcctctcc ttccagaagg cgctgagcaa 120
 gatcgcttgc aatcggtgc agaaagagct cgccgagtgg cagcaaaacc cccccgccg 180
 gttcaagcac aagggtctccg ataacctcca aagggtggta attgaggtca ccggagcggc 240
 gggcaccctt tacgccggcg aggttacca gttgcaggtt gacttccctg agcattatcc 300
 tatggaggca cctcaggtca tttttctcaa tccagcgcca atgcatccac acatttacag 360
 caacgggcac atctgcttag atattctgta tgactcgtgg tcaccagcga tgaccgtgag 420
 ctctgtctgt atcagtatcc tgtctatgtt gtctagttcg ccagcaaagc aacgcccggc 480
 ggacaatgac cgctatgtta ggaactgccg caacgggagg tcgcaaagg agactagatg 540
 gtggttccat gacgacagg tgtaatgatc tncgtggcat tgcct 585

<210> 5504
 <211> 583
 <212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-110-Q1-K6-C1

<400> 5504

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caactagcaa catagnaaaag cacaatagtg taccaacaat ggcagctaaa aattttgcct 60
ccttatgctc cttggtcttt ctgcaagtgc tgctacggcg accattttcc cacaatgctc 120
acaagctcct atagcttccc ttcttccccc gtacctctca ccaacgggtg cttcggtatg 180
tgaaaacca attcttcaac cctacaggat ccaacaggca atcgagctg gcattctacc 240
tttatcacc ttgttctctc aacaatcctc agccctatta cagcagttac ctttgggtgca 300
tttattggca caaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360
tgctactct cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaactctgc 420
ttcttatttg caacaacaac aactaccatt cagccagcta tctgctgcct acccccagca 480
atttcttcca ttcaacaac tgacagcatt tgaactctnc tgcttattta cagcagcaac 540
aactactacc attcagccag ctagctgggg tgagccctgc tac 583
```

<210> 5505
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-110-Q1-K6-C8

<400> 5505

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tcatggagga ggctatggaa gcggtggtgg cggtggtggc ggcggtggtc aaggtggtgg 120
tggtctctggc tatggatctg gatccggctc cggttatgga ggcggaacg acaacggaca 180
ttattaggct ctttttaaga gctagatata tgttatacaa atatgtcacc agacatgagt 240
ctgtcttggt gcatgggatg ctagctgtgt ccatcggtg tgtaacaccg caaggcttgt 300
gatttgcct gtaaactgct tgccgcttta cattactggc aacaactaag tgataaataa 360
aatcatcta tggaattata gtatgaacac ttgagat 397
```

<210> 5506
 <211> 601

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-110-Q1-K6-D6
 <400> 5506

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ggggcgcgca ggtggcgtgg cacctctgcc tgttccggcc ggaccgggtg cgcgccgccg   60
ccgttctagg aataccgtac tacgctcgac aagctcacc catcatggag gtcttcgcgg   120
cgtttggcga tggcttttac ataaatcagt ttcaggagcc cggaagagct gaagccgcat   180
tcgctcatta cgatgttgca actgtactaa agaagttcta ctccattgaa atagatgaac   240
tcaactgctcc tcttgagtg gagatcatag actttctcga ggcattctcca tcaccacttc   300
cttgatcag cgaggaagaa ctgggccagt acgcgaaaaa gtttcggaag tctgggttca   360
ctggaccct caactactac cgcattgtgg agacgaattg gagacttctt gcaccctgga   420
acgaggccaa gattacagt cccgtcaagt tcatagctgg tgataaggac atcgggtgtcc   480
agtcctttgg ggttgagaag tacatcaaga gtggggaatt caagtccact gtcccagatc   540
ttgaagtcgc cgtcattgaa ggccaccatt ttctccagca agaacaggcc gagaggggtga   600
a                                                                 601
  
```

<210> 5507
 <211> 579
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-110-Q1-K6-E12
 <400> 5507

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ggccaatccc gagcgtggtg cgaaacctcg agcgcctcgc cgggtgacca taacaaagag   60
gaagccgcgg tagcactggt agcggcagca gtaaggggga gatgtcgtcg gcgttcagcg   120
gcgatgagac cgcccccttc ttcggcttcc ttggcgctc cgtgcgctc gtcttctcat   180
gcatgggggc ggcgtacggg acagccaaga gtggcgctcg cgtggcgctc atgggtgtca   240
tgcgcccaga gtcgtcatg aagtccatcg tgcccggtg catggctggt gtgctcggtg   300
tctacggcct catcatcgcc gtcattcat gcaactgggat caacccaag gccaaagccat   360
actacctctt tgacggctat gccacctgt cgtctggcct tgctgtggt cttgctgggc   420
ttgctgcagg catggccatt ggcatcgttg gtgatgctgg tgtcagcagc cgaagttgtt   480
  
```

tgttggcatg atcctcatcc ttatttttgc tgaagcactt gccctctatg gtctcatcgt 540
 cggcattatc ctctcgtctc gtgccggcca gtcccgcgc 579

<210> 5508

<211> 596

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-110-Q1-K6-E4

<400> 5508

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 tcgttctcgt cgtgtgcctg gctctgtcag ctgccagcgc ctctgcaatg cagatgccct 120
 gcccctgcgc ggggctgcag ggcttgtacg gcgctggcgc cggcctgacg acgatgatgg 180
 gcgcgcggcgg gctgtacccc tacgcggagt acctgaggca gccgcagtgc agcccgtctg 240
 cggcgggcgc ctactacgcc ggggtgtggc agccgagcgc catgttccag ccgctccggc 300
 aacagtgtctg ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc 360
 agatgatgat gcagcttgag cgtgccgctg ccgccagcag cagcctgtac gagccagctc 420
 tgatgcagca gcagcagcag ctgctggcag cccaggggtct caaccccatg gccatgatga 480
 tggcgcagaa catgccggcc atgggtggac tctaccagta ccagctgccc aactaccgna 540
 ccaacccctg tggcgtctcc gctgccattc cgcctacta ctgattcatg atattt 596

<210> 5509

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-110-Q1-K6-E6

<400> 5509

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 ccaacnnaaa tgcgtcttat tattgtccac aaatgtctca cttttgctgc gctagtccg 120
 attattccca cagtttctct tctcaccag ttaccttcaa tgttccttgc tttcgaccca 180
 ggggtgttgca agctcttata ggctacaaca tagcgattgc gtgtgtagcg ttttacaaca 240

tnccaattgt cccaattgct aacaaccaat ccttggcaca ttctaacaat actaaaccat 300
ctgcatcgca atcagctaca acatgttcct accatctact gagccaccct agccatgggtg 360
taaccctgtg cgtctacttt gcaacagcag cttgcttgtc ntccaacca cttg 414

<210> 5510

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-K6-E7

<400> 5510

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ctcccccca tccccagtc caaggctttg atgatgatac acaggttttt cagcatatct 120
cttcttgcac tttctgcgt ttggtatacc tctacaccag ggcagtcggg acctaccttc 180
cagtcaagtg aaggaggctc acataaacct g 211

<210> 5511

<211> 602

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-110-Q1-K6-F1

<400> 5511

cccggtcgn acccagctg tccnacagna cacacacact cgnagactcc atttcgatct 60
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agatcaagat cgggatcaat ggggttggca ggatcggaag gctggtggcc aggggtggccc 180
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accctgagga gatcccatgg ggttcgggtg gcgctgaata tgttggtgag tctactggtg 420
ttttcactga ccaggagaag gctgcagctc acttgaaggg tggtgccaag aaggttgtca 480
tttctgctcc tagcaaggat gccccatgt tcgttggttg tgtcaacgag aaggagtaca 540

agtcctgacat caacattgtc tctaattgcta gctgcacaac caactgcctt gctcccccttg 600
ct 602

<210> 5512

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-110-Q1-K6-F9

<400> 5512

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gtggctcttgt tgttcattga gcgaggaaac aggatcgact agaacttggt ctcttagatc 120
gttaaccacc ttttcgtggt tntgctcagg catcactctc ttcacggagg tgggtgctgac 180
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gctgcgctcag cttctgtcac gtcttgaaca tttgtcaccg ggaccttaat ctgggtaaca 360
cgctgcttga ctgttttccg gggccgcgcc tcaa 394

<210> 5513

<211> 597

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-K6-G10

<400> 5513

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cggcgaccag cggccatgcg ggtggcaccc aggggtgctct tctcgtccg cgacgccgcg 120
ggctaaggcg ctgccctcgc cgacgcgctc cgcccgcgcg ccgggctaac tagggagtcc 180
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tataagccac ctcttgacgc gtgtgttgta aatggggctct tggaactgat ttcttctgaa 360
gctacctcca ctgagcgaac tctaattgtc ccatacatca caagatcgtc aagctatcat 420
catggaacgg aacatgcaac aaaggcatcg actgtacttc atggtgctga aataggggca 480

acaactgact atactcacct gttggttggt gggaccacta aacctcctac atccttgcaa 540
 atacgtagtg aaccaatatt atgtttgctg gaaatgggtgc gtgtgttgaa ggtgcct 597

<210> 5514

<211> 251

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-110-Q1-K6-G5

<400> 5514

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 cgtgtcaagt aatatcaaca ggtttcatan aaaaaaaaaa aaaaaaaaaa naaaaaanaaa 180
 aaanaaaaag gaaaaagaaa aaaannaaaa aanaaaaaana aaaaaanaaa aaaggggctg 240
 gccgttttaa a 251

<210> 5515

<211> 589

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-K6-H12

<400> 5515

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 attgtctcac aaattatcag aggttcttga cttctctggg catgttgctc cagcggagaa 120
 gtatcctggc agtttactag aaggtttctc tgggtgtcaa gttagcacac ttgctgtgaa 180
 tgaggggttg gtggtagctg gcggttttca aggagaacta attggcaaag atgtggaagg 240
 ctgtagtgta aaattctgta tgaggacaac tttgagtgc aatgccataa caaatgccat 300
 agatatacac agatcgataa gtggaagcct gcacattaca gtatctaaca acgattgtgg 360
 tgttcgtgaa tatgatatgg agagatatca gctcgtgaac cactaccgat ataactggcc 420
 ggtaaatcac acatccgtga gccagataa gaaacttttg gctgtggttg gagatgatcg 480
 agatgctctt cttgtggatt cacgaaatgg aaaggttaacc tctaccctag ttggccatct 540

ggactactca tttgctacgg catggcaccc ggacagccgg acattcgcg

589

<210> 5516

<211> 592

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-110-Q1-K6-H2

<400> 5516

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cctgccccctg cgcggggctg cagggcttgt acggcgctgg cgccggcctg acgacgatga 180
tgggcgcccgg cgggctgtac ccctacgcgg agtacctgag gcagccgcag tgcagcccgc 240
tggcggcggc gccctactac gccgggtgtg ggcagacgag cgccatgtac cagccgtcc 300
ggcaacagtg ctgccagcag cagatgagga tgatggacgt gcagtccgtc gcgcancagc 360
tgcagatgat gatgcagctt gagcgtgccg ctgccgccag cagcagcctg tacgagccag 420
ctctgatgca gcagcagcag cagctgctgg cagcccaggg tctcaacccc atggccatga 480
tgatggcgca naacatgccg gccatgggtg gactctacca gtaccagtac cagctgncca 540
gctaccgcac caaccctgt ggcgtttccg ctgncattcc gccctactac tg 592

<210> 5517

<211> 605

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-K6-H9

<400> 5517

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acaacaatac ctctctccgg tgacagccgc gagatttgaa tacccaacta tacaatccta 180
caggctacaa gaggccatcg cagcaagcat cttacggctg ttagcattga ccgtccaaca 240
accatatgcc ctattgcaac aaccatcctt aatgaatcta tatctccaaa gaatcgcagc 300
acaacaacta caacaacagt tgcttccaac aatcaatcaa gtagttgcag cgaaccttgc 360

tgcttacctc cagcaacaac aattttcttcc attcaatcaa ctagctgggg tgaaccctgc 420
 tgcttacttg caggcacaac agctactacc attcaaccaa cttgtcagga gccctgctgc 480
 cttcttactg cagcaacagt tgcttccatt ccactacaa gttgtggcaa acattgctgc 540
 tttcttgcaa caacaacaac aattgctgcc attttaccca caggttgtgg gaaacattaa 600
 cgctt 605

<210> 5518

<211> 635

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-A1

<400> 5518

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 cttcttgagc tacaacgcta tagctaata gaaggggacc ccacaatgtt gcctcagtgc 180
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 tgagaggaac ccagggtgta caaccatata ggctgtgaac aaggcgaatc acagcgtggc 300
 aacatacctt aatagccctt gttggttcaa caatcgccag ccctatgttt ggtgcattca 360
 ttggtacaaa ccactcagggc acaacagctg caccaactcg tgctacctct gatcaaccaa 420
 gtatctctgg caaacctttc tcctactat cagcaacaac aattttcttcc attcaaccaa 480
 ctgggtacac tgaaccctgc tgcttatttg cagcaacaac tattaccatt tagccagcta 540
 gctactgcct actctcagca acaacaactt cttccattta accaattggc cgcactgaac 600
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<210> 5519

<211> 539

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-A11

<400> 5519

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gattcaatca gtaccgatga tgctgttggc tgaccataat gagcccgatga gggcacaact 120
 gccccagtta tggccccacg aagtcattag gggttatgcag cagcattcac atggacgata 180
 gatgaactat ggggaactct cccgccgggtt ggtgaacaac taaaccgtga tgtcagtcac 240
 gcggagacga aagaataact ggcgcttcgg ctggcagatc tgtaagagga tcatgactac 300
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 tgcacacaac ataaaacccc taagcatata ttctaatttc tgcagctggg attgaatcaa 420
 ataagtcaga taaaatcggc cttgctaact gttgcgctat ccagaatggc aaatggcgcc 480
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<210> 5520

<211> 625

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-A2

<400> 5520

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 gatagagctg ttactgatac catatttaaa aaaggctcca acgctgatat ggttgccggt 180
 ataacgctgt tcctttcacc aaaggaagtt ggttgattgg caaaaccagt tgttgaagcc 240
 taaaggagcc aacatgcagt caaagggtgtt attttaactg tatcaacttt ggttgatatca 300
 caatagataa acgtattaca tcagctacct gggtgagaat ttataggcgc agatgtttgtg 360
 aatacaacag ctacaacaac gctggctagc agaccaatgt aacaaatttc aggagcaaga 420
 cagtatgtca ttgaatcaac tagctgcatt gaactctgct atttaaattgc aacaacaaca 480
 actatccatt gatgcaagta atagactgct acccctagca gtttgttgca ttgaaccatc 540
 tgacaagatt gaactctcct gcttatttac agcagcgaca actactacgc attcagagcg 600
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<210> 5521

<211> 585

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-A3

<400> 5521

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cttatttgtc cttaagaga gggcaccacc tgcgatggtt atttcacact gactcacttg 180
gttccattga catataactc acagtttctc cctacttggt cttgaatggg gtaggcacac 240
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attgaccaat tcccacaaca atgcttgaat catataacca taaaaccat cgcaacgcag 360
cttgcaacag ctctgtgcca cctagccggg gccaacccta tcgcctactg tggacaacac 420
aacggttgca tccaaccac ttgctcttgg acacatagct gcgtaccaac aacaacaaca 480
gttgcaaca gtgttctacc agcgactcag gtcaactatc catgagtga ccctatcgct 540
ctacctaaa cagcgaaca cgttgtttga tgctaggccc gctcg 585

<210> 5522

<211> 584

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-A4

<400> 5522

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gtccttctcg ctttttgcac aagcgatgct accgcaacta tctctccaca gtggtcacaa 180
caattccggt gggcggagac agccaagcag attggatacc cagctataca agcctacagg 240
gtacaaaagg caatttgatt gacgcattct cgggggttaa ggttgaccct gcaacatcct 300
atgccttgat tgcaacaacc ctcttactg aatgtataaa ctgcaaaaaa tggatttaca 360
acaactaaa caacagttgg tttcaacaat ctatcaagta gtatgaaaga aacttggtgt 420
ttacctacag agacaacaag ctctgccta gaatgaacta tgggaggaga accctggctc 480
cttacttgca cgcacaacag ctactaccat tcaaccaact tgtgaggaac cctgctggct 540
tgttactgca acaacagttg cttgcatccc atctacaaat tgtg 584

<210> 5523

<211> 522

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-A6

<400> 5523

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tgtccgttgc aggactagca ttcagtaact cactcgagat ctagaaggac cctgtatgta 180
gacgaattaa catcggggagc atgaatatac aacacacgcc actactacct gtgagatggg 240
ctgctaccta tgaggacagg ccacaatgag tatatccctg gtttgccac tgccctgact 300
atgttatatc atctgattta gttaaggatg ttatgaacta ccataagaat caaagaatga 360
agctcttgaa aaggaaatat ctgaactacc gagtgtgggg atgacatgac actgagacta 420
tacctgatgg atacaatgca cactgactaa gtaatgtgca gatggatgct tccctgacta 480
ccatactgct cattaccaat tgccatggct acagctatgc at 522

<210> 5524

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-A7

<400> 5524

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caccataatc atctatatca tactcacgtc tatgtgacca acgagctcaa gatcccacga 120
acaaaccaca ccacagagct tgctagacat cctgggcatt gctgatgcgc gacggagaca 180
acgagcacac gcggtggcag gtcgggatct attttccaaa ccaagccgct ggggaggaca 240
cacacaagca tgattgacgg gcacgcaccg aggagcagaa tgctgtccac cctgcgtgcg 300
caggaagcat actcgtgcct gacccccaaa gacgctaagg ttgcaaacac cattaacaac 360
ctgaacacgg ctgaactcgt acctggcgtc agcataacca tggccagagc tgaaacaaac 420
ctctgcgtcg acctgccac ttgctcttgc tcacaggggt cacat 465

<210> 5525
 <211> 307
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-110-Q1-N6-A9

 <400> 5525

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gcacctgcaa caaccatcag ctctattaca gaatgtacct agcgttgcac tgtgtgtgac  180
acaaaacatc aaggcacagc aactacaaca acttgtgcta ggaaaccttg ctggctactc  240
tcagcaacag cagttaattg cattcaacca actggctgaa ttgaactctt ctagttattt  300
ggtacaa                                           307
  
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<210> 5526
 <211> 637
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-110-Q1-N6-B10

 <400> 5526

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cggaggagcg caagccagag cttatgcaag taccgtggcc tggttcggaac tgccgtcacc  180
atatttaggg aggaaggggg cgaatggctc ttgaagggca ttatttctgg gccttcaggg  240
aagagaatth accgtgggct ccaaattggc ctgtagaggc ctgaaaattc ttctacggcg  300
gataagacca aaatggggat gttcattggt ccaagaagat agtggacggc ttcacaactg  360
gtgccatcgc tatcatcata gacaacccta ctgaccttgt caaggtcagg atcctagccg  420
atggcaagat tgcacctggg gtgacacgcc gatgcactgg cgcaatggat gcttatggca  480
agattgctag acaggaagga gatgacaatc tgtggactgg ccttggactc aaatgtagcg  540
cggaatgcta tcatcaatgc tgatgagttg gccagctctg atcaagtcaa gcagtcaatt  600
ttgaaactcc ctgagttcaa agatgatgtg gtcaccc                                           637
  
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<210> 5527

<211> 560

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-B11

<400> 5527

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gcagcaagca cggggaccga tactttaatt ccagaatgct aacagcaata cttttctgct 180
gtggcaggaa gggaaaattg aattgcccaa ctattcaggg tctgcatggg acaaagagcc 240
gttcaagcaa gaatgcttaa agtgattacc acaaacgctg caacaaccat atgetatggt 300
gcaacatcca tacatagagc atgtgtgtct acaaagaatg tggaacagac aactactaca 360
acagctgcta ccaagcataa aggctaccgc ggaggggaacc atgggtggta ccttcaggcc 420
aacagtttct tgcattgaat ccaccagctg ggggggaacc tggtataaac ttgcgggcac 480
agcagctacc accatgttac caacttgctc cggagccctt atgccgtctt accggaacaa 540
cagattgtgg cattccatat 560

<210> 5528

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-B12

<400> 5528

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cacaccggat caccatcaat accagtgaag aatgaggagg tacagatccc actacagccc 120
taccaggaga caacatgggg gtaggggaag gaaccacact cccactaaag gatttggcag 180
cagaccaacc aaccatcttt gtcccacatc tcacaaacct cacaattacg aaaatataca 240
cacctgctga actacgatgt acctagagaa ctgacacaag ccttcccaat caatgggtac 300
acacaccaag catattatca cacattcata gaccaagatg atagcaggcc acgccgacct 360
tgaccgct 368

<210> 5529
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-B3

<400> 5529

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tgccacatgt aacaatacat gccatggcaa cacatcatgc acgtcagcaa ctagcctcgc 120
tacagcctag tagagcatag agatacccca acgtctacta acaagagcag ctgcttgcat 180
gcaaccact tgctctcacg aacgtagctg cataccagca acagcaacag ctacaacagt 240
gtctgccaac gctcaatgga ctagccattg agaaccctgc cgactacgtg caacaacaac 300
aactgctttc atgtaacccc ctgctgtggg gcaatgcacc tacatacctg caac 354

<210> 5530
<211> 534
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-B6

<400> 5530

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atattatcca taattaatgc ttcttgctat ttatgtatgt aggtgctaaa acgaacaagt 180
caccctaata tgatcacaag ctgctagagg tcccttggtc tgccatacct tgcacgacag 240
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gagcagtcac tggatcaaat catgaagaca cacaagctgc agaaactcgt gctacctgtg 420
atacaaaaca atagctctgg caaacctttc tgctactct cagcaacaac aatttcttac 480
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<210> 5531
<211> 558

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-110-Q1-N6-B8
 <400> 5531

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agaacatgaa agagcaagaa ctacaacagc tagcgctagg aaaccttgct agatactgtc 240
agcaacagga gcatcttgca tgcaaacaac tggctgcttt gaactctgct gcttgtttgc 300
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caaccaactt gctttgac 558
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<210> 5532
 <211> 631
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-110-Q1-N6-C1
 <400> 5532

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acataaatgg ctgaggatct gcaacaactt gtgctatcaa agcttgctgc ctactctgaa 420
aatcagaagc ttattccatt caaccaacta gctgcattga actatgcttt ttatttgcaa 480
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caacaacaac taccattcag ccagatatct gctgcctacc cccagccatt tgtttcattc 540
aaccaactga cagcattgna actcttctgc ttatttacag cgatcgcaac tactaccatt 600
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<210> 5533
<211> 647
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-C4

<400> 5533

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gcaacatcaa ttatctaact ccaaaaacca tgaagctggg gcttgtgggt cttgctttca 180
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caccaccaca acatcaccag cagcagcaac accaacaaca acaagttcac atgcaaccac 360
aaaaacatca gcaacaacaa gaagttcatg ttcaacaaca acaacaacaa ccgcagcacc 420
aacaacaaca acaacaacaa cagcaccaac aacaacatca atgtgaaggc caacaacaac 480
atcaccaaca atcacaaggc catgtgcaac aacacgaaca gagccatgag caacaccaag 540
gacagagcca tgagcaacaa catcaacaac aattccaggg tcatgacaag cagcaacaac 600
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<210> 5534
<211> 640
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-C5

<400> 5534

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 cacccttggt cctccaacaa ccgtcagccc tattacagca gttacctttg gtccatttgg 360
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 cattcaacca actagcagca ttgaactctg ctgcttattt acagcagcaa caactactac 600
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<210> 5535

<211> 551

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-C6

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 cgaggaagcg tatataccta tacctgactt gagtgccacc atgaatatat gaaaaaacca 180
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<210> 5536

<211> 572

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-C9

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tgctgttgag tcaaataagt cacattagat ggggccttgc taactgttgc gcatccagaa 480
tggagaccgg cgctgcagc tgcattaatt aattacgcat ctctccggga taggacacct 540
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<210> 5537

<211> 661

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-D10

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actttgccac acatcttatt gtgttttaca catatttgcg aacgctttac aaaaccattc 180
ttaaagaac taatgattca agtgattcac aaaagccttc aaaaaccac ttgcaagctt 240
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acttcgttgc gttttgccat caaagtaaca gactgtgcgc attccagtc aaacacctgc 360
atcaaaaata attgttgttt aagtagaaaa cctagaacta tcattaccaa ataattgtat 420
tacaatgcc aacaattctt cttggattcc caagaccatg catatttgac aagtggcata 480
acattaaata gtatagtcaa acaaatgtg atgtcagaag tatgtcaa atgtattagt 540
ttttatttcc tttctgacta atagatat atctgatgta aagaaattgt ataaaatcaa 600
gcaagcggag ggcattgctg ctgcttaatt ctaacttatt gcacatcaca ttaatataaa 660

<210> 5538

<211> 605

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-D11

<400> 5538

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cagcagcaac accaacaaca acaagttcac atgcaaccac aaaaacatca gcaacaacaa   300
gaagttcatg ttcaacaaca acaacaacaa ccgcagcacc accaccaaca acaacaacaa   360
cagcaccaac aacaacatca atgtgaaggc caacaacaac atcaccaaca atcacaaggc   420
catgtgcaac aacacgaaca gagccatgag caacaccaag gacagagcca tgagcaacaa   480
catcaacaac aattccaggg tcatgacaag cagcaacaac cacaacagcc tcagcaatat   540
cagcagggcc aggaaaaatc acaacagcaa caatgtcatt gccaggagca gcaacagact   600
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<210> 5539

<211> 619

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-D2

<400> 5539

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cttcttgccc tttttgagag cgcagcacct gcgtccattg tttcacatgc tcaactggctc   180
ctagtgtcat tataccacag ctgcttcgac cagatacttg aatgtgcttg aaacacctaa   240
ctaattggagc ctgcactgtt caacaagcac ttgactggag cgtcttataa cagcccacta   300

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accaattgca accacaatgc ttggtgcatg taaccatacg aaccatggca gcacaacagc 360
 ttcgacacag ttctactcag cactgagccg accaaatgtg gggaaccctg gctgctactt 420
 gcatcagcgg gcgcttgcat acaaccact tgttatggca aacgtagctg cttaccaacg 480
 acaacaacaa ttgtacaca tgtctggcag cgctgagcga actagccatg tgtgaaccct 540
 gccgcctacc tacaacatgc acaactgctt tcactaacc ctgtcgttgt gggtaatgca 600
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<210> 5540

<211> 587

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-D5

<400> 5540

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 ggccaggagc gacggatcgc tgaagctgct cgctgcggg gactggggac gcaaggggac 180
 tcacaaccag tcccggtcgc ccgaccagat gggaagggtc ggggagaagc tcgatatcga 240
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 gaggaagatc gacgaccgat tcatttgcat gagatcgctc atcggttaacg cagaacttgt 480
 ggacttcttc tttgtcgaca ccactccgtt ccaactggag tattggactc accctggcaa 540
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<210> 5541

<211> 616

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-D8

<400> 5541

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tagctctggc aaacctttct ccctactctc agcaacaaca atttcttcca ttcaaccaac 120
tgactacact gaaccttggg gcttatttgc agcaacaact attaccattc aactagccat 180
ggggaaccct atcggctacc tacaacagca acagcttggt tcacttaacc cgatcgctat 240
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tgtaccagct cttactcagc tagctgtggc aaaccttgct gcctacttgc aacaactact 360
tccattcaac caactgactg tgcgaactc tgctgcgtac ctacaacagc gacaacagat 420
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gctgccatac aaccagttct ctttgatgaa ccctgccttg tcgtggcagc aacccatcgt 540
tgggtggcgcc atcttttaga ttacatatga gatgtactcg ataatggcgc cctcatagcg 600
gcattgtgtt cctaaa 616

<210> 5542

<211> 615

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-110-Q1-N6-E10

<400> 5542

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atcggttccc ttgctctcct ggcgctcgtc gcgagcgccg cctccagtag aagcggcgcc 120
tgtggctgcc agacaccacc ggttcactca ccgcctccgt tctatatgcc gcctccgttc 180
tatctgccgc cgcagcagca gccgcagcca tggcaatacc ccaactcaacc accgcagcta 240
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cagtgccagg cgctgcagca gcagtgcctc caccagatca ggcaggtgga gccgctgcac 420
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gagctcgccg cgctgatggc ggcccatgta gcgcagcagc tgacggcgat gtgcggcctg 540
cagctgcagc agccaggtcc ctgcccttgc aacgcagctg ccgncgggtg tctactactn 600
gagaaaactat gtact 615

<210> 5543
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-E3

<400> 5543

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 gcagcaacaa caactactac cattcagcca gctagctgct gctaccccc ggcaatttct 180
 tccattcaac caactggcag cattgaactc tcatgcttat gtacaacaac aacaactact 240
 accattcagc cagctagctg ctgtgagccc tgctgccttc ttgacacagc aacatttggt 300
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<210> 5544
 <211> 615
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-110-Q1-N6-E5

<400> 5544

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 gtataactca taataaatct cataaaaggc cccaaccgat gatggggtgt gggtagaacg 180
 cttgatgacc ctggcaaact cagacagtca taatggctat tacagcagca accgtaggag 240
 cgtgccattg ttacgagaca tcgtgctgca acaactgcaa caactggtgc tagcaaact 300
 tgctgcctac tttaaaccac ataagtggct gacaggcaac caactaggtt gatggaacta 360
 tgcttcttat ttgcagcatc aacaactacc atatagacaa atatctgctg gctacccgca 420
 gcaatttggt tcattgaacc aactgagcag atggaactct actgcttatt tacagcagca 480
 acaactacta ccattcaaac angtagctgg tgtgagccct gctaccgtct tgaacaaaca 540
 cagttgttgc cgttgtacca tgacgctgtg cctaacgctg gcaccctctt acaactgcaa 600

caattggtgg cattc

615

<210> 5545

<211> 232

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-110-Q1-N6-E8

<400> 5545

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gtaagtggaa tccagtagca acaatagagc aacaatggcg accaagatct ttcctcctt 120

atgctccttg ctctttctgc atgtgttgct aacgcgacaa ttttcctca atgctcacia 180

gtcctatag cttccttct tccccatac cttccatnnc aatgatagct tc 232

<210> 5546

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-E9

<400> 5546

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aggctctctc tatctcgagt gcacaacggg gcctctctag gatgcggcga caggcgcaca 120

agaggggcat ttgatttcag ggaagcattg gcaccagtga tcttgggtctc ctttgttctg 180

ttgatcactt tactcatcta gtttgaaagc tctatgatct aatcatgttc acggctaattg 240

ctggctaattg ctttctacat tgagaacagg tgatacctat tatagccagt taggccattg 300

gctgtagcaa tttgccttgc catatcctgc aaaggagctg ggccaagata gtacttggtg 360

ccaattggat ctggagtggg aacgaacact aagactcctg tcacagctgg tttcaaggga 420

tctccttctc tgtagaaatg aatgg 445

<210> 5547

<211> 660

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-F10

<400> 5547

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catgcgaagc gcactatcaa ccaacctatc agcattggct accaagatat aatccgtcct 120
tgcgcctctt gcgctttttg atagcgcac aaatgcgaaa cattatgtcc actaatgact 180
cacgtgtgct gcctgagctc cattatacac acatttatct aaaaacaact gacttgaatg 240
gcactaataa cacgcctagc tgtagcgaaa gcgctaatag gcctactaga caagacgcac 300
ttgtgggcag atgcgatcat aactaacatg ccagattgct cgcaattagc gaacaacaac 360
taccgtggca catataacaa tacaaccat ggaaacgcac catgaacgac agctactacc 420
atcacctgca gcctacgcta gccatggaga tagccctgac tcctactagc aacagcagct 480
gcttgcatgc aaccacttg ctctaacaaa cgtagctgca aaccagcaac aacaactact 540
gcaacagttt ctgccagcgc ttaatcaact agccattgag aaccctgaca actagctaca 600
acagcaacaa ctgctttcat ctaacccgct cgggtgtggac aatgcaccta catacctgca 660

<210> 5548

<211> 637

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-F12

<400> 5548

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cgtgagttga ccatgattca atcagtaccg atggtcctgt tggctgacca caatgagccc 120
gtgaggccac aactacccca gttgtggcgc acacgaaccc attaggggta tgcagcagga 180
tacatggacg atagatgaac tattgggaac tctcccgccg ctctcgtaac agctaaaccg 240
tgatgtcagt ctacaggaga cgaaagaata actggcgctt cggctggcac atctgtgaga 300
ggatcatgcc tacacgacgt ctaagcttgt ggctgtacgt ggtttctcaa cgaaatgact 360
gtgaaatcac tgttgcacac aacataaaag cccttagcat acattgtcat ttctgcagct 420
ggtattgtat caaataagtc acatccgtat gggccttgct aactgttgcg tctcctgaat 480
ggaaaatggc gcctgcagct gcattaatta attacgcac tctccgggat aggacacctg 540
atattgtgca ctctcattac attcctctct gatgactcat atgtaatcca gccccgacat 600

ccggcaacag ccgttaactc actctgacgg gggttgta

637

<210> 5549

<211> 504

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-F2

<400> 5549

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catgggggtga tcctctaggt ggggtgctgca ttacaccaac aggatctgca ctgttgacta 120
acaaagctcg ttagcgcagt tgctcagaga gagctagtga tggccctcag aatgagttgt 180
tacctccagt cacatataga actcagttcg agcttgaaca aaacgtgtct tggcacgaca 240
aatcacattt aacactacag agatgcaacc atatgcatct acatggaaag tgataccaac 300
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cttactactg gattaagcct gcaccaaacy agctcttcgc atcttctgat tacggatctg 420
atagtgaaaa tggtgatgaa cttcttggca ctgttgcaatt tcataatgtt atcgaaccct 480
ctggcgttgc tataagtga cacc 504

<210> 5550

<211> 473

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-F3

<400> 5550

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cactcagtag gcacgcatat aagctacaac aagcacttgg gtgagcgtaa ttagaacaac 120
caagtgcgca attacaacaa cacacactct ggctcatcta acaattcaac aatttgatgc 180
acaaactgac gatgcatcaa cccacctagc cggggtgaac gctctttgct acttgcaaca 240
acagttgatt aaatacaacc cacttgcttt gggaaacgta tctggatacc aacaactaca 300
acacttacca caggttgtaa cagcgctcac tgaactagcc atggtgaacc ctatacgcta 360
cctacaacaa gaacaactga tgtcatctag tcccgctgct atgggcaatg cacctacata 420

cctgctacaa cagttgttgc aacaacatgt tctgcaacaa attgtaccat ctt 473

<210> 5551

<211> 478

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-110-Q1-N6-F4

<400> 5551

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actagcacct atataatgca cagtaaagcc ccaaccatga gcataacaaa actattattg 120

tctgacctat gcattctatg ggcatatcta gaaagaggcg tcgctcacgg aataccagtg 180

tttgccctgga ttgaacactg gctgctatgg caaaccttgt tgccccaac ctatcaccag 240

cggcgtctgc aagatgggac aaaccattg gttcaaccct ccaggataca acaagcaact 300

gcagctggca taatacgttt ataaccctca gaccatccaa cattgcatga atgcgctatt 360

acaacatgca cctgtgatgc atttattggc acaaagcatc atggcacaac aactacaaca 420

acttgtgcta gcaaaccctg ctgactactc tgaataacag cagttgcttt cattcaac 478

<210> 5552

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-F7

<400> 5552

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ctacctctac taacattcaa acaggtggct ggcgtgagcc gtgctacctt ctagacgacg 180

ccacatttgt tagaacgctg taccacgagc tgcgcctaac gctggcacc tataacaact 240

gcaacaattg ctgacattga accaactagc ttgcacaaa cccgacagga ttataccgac 300

aaccgattat tggcggcgcc ctgttttaga tgtacttatg agtgatagtt caataataaa 360

g 361

<210> 5553
 <211> 469
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-F8

<400> 5553

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<210> 5554
 <211> 624
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-110-Q1-N6-G11

<400> 5554

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 ccttcttgct cttttaacaa gcgttgctac cgagactatt gttccacaat ggctcacaac 180
 aataccttta tgcggtgaca gccgagagat ttgaataccc aactatacaa tctacaggc 240
 tacaagagga cgtcacatta agcatcttac ggtcgggtag catttgaccg cccaacaacc 300
 atatgcccta ttgcaacaac cattcttaat gaatctatga tctacaaaga atcgcagcac 360
 aacaactaca acaacaattg ctttcaacaa tccaatcaag tagttgcagc gaaccttgct 420
 gcttacctcc agcaacaaca atttcttcca ttcaatcaac tagctggggg gaaccttgct 480
 gcttacttgc aggcacaaca ggtactacca ttcaaccaac ttgtcatgag cctgctgtgc 540

ttcttactgg aacaacagat gcttccattc catctactag ttgaggcaaa cattgctgct 600
ntcttgcaac aacaacaaca attg 624

<210> 5555
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-G2

<400> 5555

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atcac 245

<210> 5556
<211> 637
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-G7

<400> 5556

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cgaaggccac aattacccca gttgtgacga cacgaactca ttaggggttat gcagcaggag 180
tccatggacg atagatgaac tgtggggaac tctcccgctg gttggtgaac agctaaaccg 240
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gaaacctgcg cctgcagctg tattaattaa ttacgcatct ctccgggata ggacacctga 540
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637

<210> 5557

<211> 591

<212> DNA

<213> Zea mays

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<400> 5557

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gcaccgacga tgtgttacat atgaccaact gtttacctg aaccctgctg tttatttgca 360
ggaacaactt ttaccattca accagctagg ttctggctac tctcaggac aacaacttat 420
tccattttac gcattgggtc gcactgaacc ccgctgctta tttgcagcag caaatactac 480
taccatttag ccagctagct gcagcacacc gtgcttactt cttgacacag caacagttgc 540
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<210> 5558

<211> 629

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-110-Q1-N6-H11

<400> 5558

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tgattttaag ccaaaattgg cactccaaca agggttgctt ccttggcctg acaagcatct 240
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aattggtcaa ccgctacaac aggatttgcc aaatgtaaca attcatgcc tcaacccgca 360
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 actcacaaga gcagatgctt gcatgcaacc cacttgctct agcaaacgta gttgcagacc 480
 agcagcaaca acagctacaa cagttggtgc caacgaataa acaactagcc atggtgaacc 540
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 cacctacata cctgcaacaa caattgttg 629

<210> 5559
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-H4

<400> 5559

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 gtatactacc acacatacgg cgacgaccta ctgataccct cagtgccagt cgttggggat 180
 ggagtgttgc tagtgaatgc agcacatgga gccagatgct gggcccagtg gaccttcaac 240
 ttgcccctac actgctgctt tgagagtagt cctaaaggat gcactgcgag acgatgccgg 300
 agatccacta tagaccagta actgacgtcc atctgcgtgc tgtagtagcc aaattgatgc 360
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<210> 5560
 <211> 647
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-110-Q1-N6-H6

<400> 5560

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ctcattaggg ttatgcagca ggatcacatg acgatagcat gaactattgg gaactctccc 240
gccgcttcgt gaacaactaa accgttatgt cagtctcacg gagacgaaag aataactggc 300
gcttcgggctg gcagatctgt aagaggatca tgattacacg aggtctaagc ttgtcactgt 360
acgtgggtttc acaacgaaat gactgtgaaa tcaactgtcg acacaacata aaaccctta 420
gaatacattc tcaattctgc agttggtaat gaatcaaata agtcacatac aatatgggcc 480
ttgctaactg ttgcgtatcc agaatggaaa attgcgcctg cagctgcatt aattaattac 540
gcactctctcc gggataggac acctgatatt gtgcactctc attacattcc tctctgatga 600
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<210> 5561

<211> 620

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-K6-A10

<400> 5561

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atagcttccc ttcttcccc atacctcca tcaattatag cttcagtatg tgaaaaccca 180
gctcttcaac catataggct tcaacaagca atcgagcaa gcaacatacc tttatcgccc 240
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gcacaacagc tgcagcaact cgtgctacct gtgatcaacc aagtagctct ggcaaacctt 360
tctccctact ctgagcaaca acaatttctt ccattcaacc aactgtctac actgaacctt 420
gctgcttatt tgcagcaaca actattacca tttagccagc tagctactgc ctactctcag 480
caacaacaac ttcttccatt taaccaattg gccgcactga accccgctgc ttatttgagc 540
cagcaaatac tactgccatt tagcgagcta gctgcagcaa gtcgtgcttc cttcttgaca 600
cagcaacagt tgctgccttt 620

<210> 5562

<211> 647

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-K6-A8

<400> 5562

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cgaccgccga cgaccaacca aacctgcgaa gaggaagag ccgtcgcttt cgctacgctc 120
ggcagtggag gacacatctt cctcgccgct tctggctttg atccggtcgc atccaacgca 180
cgacctgttg aaccagggcg tgcctccca ggttcctttc ttctccgtct ccgcgtaggc 240
gtagcgaaga agctaacct gaatacaaga tatcgacgc aagagggagc accggagcag 300
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ccaacaagga gatctcctcg gcaggcgacg acctcgattc gctctcgacc agcgtcgggg 480
atggagcgaa atggctggtg aacaagctga agggcaagat gcagaagccg ctggcggacc 540
tgctcaagga gcacaacctc cccgtggggc tgttcccgcg cgaggcgacc aactacgagt 600
tcgtgccaga gacgcggcgc ctgacggtgt acatcccgtc ccctgc 647

<210> 5563

<211> 658

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-K6-B10

<400> 5563

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acaatggcga ccaagaattt tcctcctta tgctccttgc tctttctgca tgtgttgcta 120
acgtgacaat tttcctcaa tgctcacaag ctctatagc ttcccttctt ccccatacc 180
ttccatcaat gatagcttca gtatgtgaaa accagctct tcagccctat aggctccaac 240
aagcaatcgc agcaagcaac atacctttat cacccttggt gtttcaacaa tcgccagccc 300
tatctttggt gcagtcattg gtacaaacca tcagggcaca gcagctgcag caactcgtgc 360
tacctgtgat caaccaagta gctctggcaa acctttctcc ctactctcag caacaacaat 420
ttcttccatt caaccaactg tctacactga acctgctgc ttatttgag caacaactat 480
taccattcag ccagctagct actgcctact ctgagcaaca acaacttctt ccatttaacc 540

aattggccgc actgaacccc gctgcttatt tgcagcagca aatactacta ccatttagcc 600
agctagctgc agcaaaccgt gcttccttct tgacacagca acagttgctg cctttcta 658

<210> 5564

<211> 489

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-K6-B6

<400> 5564

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cgtgggtggg cggatcgagg aggcggcgtc ggatgttgag taccgctgct tcgtcggcgg 120
cctcgcttgg gccacggtct attcctccct ccacaacgcc ttcagcacct acgggggggg 180
ggggggagtc caanatcatc ctcnatcggg agacgcanag gtcccgcggc ttcggcttcg 240
tcaccttctc cacggaggag gcgatgcgga acgccatcga gggcatgaac ggcaaggagc 300
tggacggccg caacatcacc gtcaacgagg ccagtcctcg cggcggccgt ggaggcggcg 360
gcggcctttt tttnggtggc cngngnggcg gnggctaccc cggngttttg cgccngatg 420
gcgngngngg cttcggcggg ggcggcggcg gcttccgtgg cggnggtggc tacggtggtg 480
gtggtggcg 489

<210> 5565

<211> 634

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-K6-B9

<400> 5565

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agcgcantca tatgtctgtt cattattcca caatggctca cnnttgctcc tagtgccatt 120
attaccatca tgttcctccg accagttacc ttcaatgggc tgtggaacac ctgagctgtg 180
ncaagcctac nnaggctaca acaagcgctt gcggcgagcg tcttacaaca acccannatt 240
aaccaattgc aacaacaant ccttggcaca ntctaaccat acaaaccatc gcaacacaac 300

agcaacaaca gttcctacca gcaactgagcc aactagatgt ggtgaaccct gtcgcctact 360
 tgcaacagca ggtgcttgca tccaaccac ttgctctggc aaacgtagct gcataccaac 420
 aacaacaaca attgcaacag tttctgccag cgctcagtca actagccatg gtgaaccctg 480
 ccgcctacct acaacagcaa caactgcttt catctagccc tctcgttgtg ggtaatgcac 540
 ctacatacct gcaacaacaa ttgctgcaac agattgtacc agctctgact cagctagctg 600
 tggcaaacc tgcctgcctac ttgcaacagc tgct 634

<210> 5566

<211> 636

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-K6-C1

<400> 5566

tccggcaatt tagnaaagca ccaatagtg accaacaatg nngcagccaa aatattttgc 60
 ctccttatnn gtccttggt atttctgcaa gtgccctgct acggcgaccc attttccgc 120
 aatgctcaca agctcctata gcttcccttc tcccccgta cctctcacca gcgggtgtctt 180
 cggatatgtga aaaccaatt cttcaaccct acaggatcca acaggcaatc gcagctggca 240
 tcttaccttt atcacccttg ttctccaac aatcatcagc cctattacag cagttacctt 300
 tgggtgcattt attggcacia aacatcaggg cacaacaact acaacaactt gtgctagcaa 360
 accttgctgc ctactctcag caacagcagt ttcttccatt caaccaacta gctgcattga 420
 actctgcttc ttatttgcaa caacaacaac taccattcag ccagctacct gttgcctacc 480
 cccaacaatt tcttccattc aaccaactgg cagcattgaa ctctcctgct tatttacagc 540
 agcaacaact actaccattc agccagctag ctggtgtgag ccttgctacc ttcttgacac 600
 aaccacagtt gttgccgttc taccagcacg ctgcgc 636

<210> 5567

<211> 469

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-K6-C3

<400> 5567

gcactacaac aacttagccc tggggggggcc gggcgtgcct nactctcagc aacagcagtg 60
tggttccatt caaccaactg ggtgcgtgtg aactctgctg cttatttgcn ncaacaacta 120
ccattcagtc agctagctgc tgcttttccc tcgcatttct tccattcaac caactggggg 180
gggggggggg ggctgcttat ttacaacagc nccagctacc acctttcagc cagctagctg 240
atgtgagccc tgttgccctc ttgacacaac aacagttggt gccgttctac ctgctcgctg 300
tgcttgacgc tggngccctn ttacgntgc gncaattgct gtccttctnc caacttggtt 360
tggcgtaccc ttctacgttc ttccatcatc ccattcttgg cggtgccctg ttttggttgg 420
cttatgtgtt gtcggtgcgt nntgncgttt tttggttgtt gtttgtggt 469

<210> 5568

<211> 321

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-K6-C4

<400> 5568

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tgngnggctg acgcgaacaa gngccctcta tgtttttttt ctccatagc ttcccttctt 120
ccccttgggg gggggggggg gctcncnttc cntgccnaaa acccctctct tggtctctct 180
ggcttcaaca tgcacttggtg tgnngcagat acctttatcg cccttggttt ttctgctctc 240
ttcagtcctc tctttggtcc ggtcgttgct gctgtccctc agggcgcatc tgctgcatct 300
tctctcgctt cctgtggtca t 321

<210> 5569

<211> 630

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-K6-C6

<400> 5569

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cttatgctcc ttgggctgtc tgcaagtgtc gctacggcga ccattttccc gcaatgctcg 120
 caagctccta tagcttcctt ttttcccccg tacctctcac cancggtgtg tggggggggg 180
 gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcacagctgg catcttacct 240
 ttatcacctt tgttctcca acaatcatca gccctattac atcagttacc tttggtgcat 300
 ttattggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct 360
 gcctactatt tttttcagca gngncttcca ttcaaccaac tagctgcatt gaactctgct 420
 tcttatttgc aacaacaaca actaccattc agccagctac ctgctgccta ccccagcaa 480
 tttcttccat tcaaccaact ggcagcattg aactctctg cttatttaca gcagcaacaa 540
 ctactaccat tcagccagct agctggtgtg agccctgcta ccttcttgat acaaccacag 600
 ttgttgccgt tctaccagca cgctgcgcct 630

<210> 5570
 <211> 535
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-111-Q1-K6-C7

 <400> 5570

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 agccgcagng cagcccgtg ggggcggcgc cctactacgc cgggtgtggg cagccgagcg 120
 ccatgttcca gccgcttttt ttttttctg ccagcagcag atgaagatga tggggggggg 180
 ggggggggcn ncacancnnc anatgatgat gcancttgag cgtgccgttg ccgccagcag 240
 cagcctgtac gagccagctc tgatgcagca gcagcagcag ctgctggcag cccagggctt 300
 caaccccatg gccatgatga tggcgcagaa catgccggcc atgggtggac tctaccagna 360
 ccagttgtcc attttccgca ccaaccctg tggcgtttcc gctgccattc cgcctacta 420
 ctgattcatg atattnggga aatctctct atccatctct ctcttttctt ttntgnaata 480
 ntgcagctgg gcgaccaca ttatcatgtg tggtttgacc cttctttttt gcttg 535

<210> 5571
 <211> 403
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-K6-C8

<400> 5571

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gtgggcagnc cgagcgccat gttccagccg ctccggcaac agtgctgcca gcagcagatg 120
aggatgatgg acgtgcagtc cgtcgcgcag cagctgcaga tgatgatgca gcttgagcgt 180
gccgctgccg ccagcagcag cctgtacgag ccagctctga tgcagcagca gcagcagctg 240
ctggcagccc aggggtctca ccccatggcc atgatgatgg cgcagaacat gccggccatg 300
ggtggactct accagtacca gctgcccagc taccgcacca acccctgtgg cgtctccgct 360
gccattccgc cctactactg attcatgata atttgggaaa tct 403

<210> 5572

<211> 113

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-K6-D3

<400> 5572

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attgccggcc gggggcgnaa cngaccgccg ccgccgcaa aaccaccttc cct 113

<210> 5573

<211> 516

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-K6-D4

<400> 5573

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atgtcacaa gtcctatag cttcccttct tccccatac ctcccatcaa tgatagcttc 120
agtatgtgaa aaccgcaggt gggggagccc ntatagctcc aacaagcaat cgcagcaagc 180
aacatacctt tatcaccctt gttgtttcaa caatcgccag ccctatcttt ggtgcagtca 240

ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa 300
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 ttgctttgac taatcctacc accttattgc agcagcccac cattggtggt gccatcttct 420
 agattttttt atgctttata ctgtaataat aaagttctca tactgatatg tgcaacttct 480
 cagtaataaa agattagaga tctatatattt aagttc 516

<210> 5574

<211> 615

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-K6-D5

<400> 5574

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 cgctggnnag tgggnntggt gctttgggct tacgcgnngc gggcgccggn aggctggtca 120
 tttcttgtct gctgcnntga cgctttgccg gggctggtac ggtggggggg gggggnggag 180
 ggtntccent ggtgccggag cgcgccttca agcccatgat gtccgtggtg ccccttctgc 240
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 cagcctgca cccctccga gcacctccgc caccacatgt ccgtcatgaa gtgcgacgc 360
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 tcgtngncag gctcgaccag atgcagctgc gcgtcgacaa gctcaagaag cgcgacgact 480
 gatggggctc gcgttcgcgc ctttcccggtg tccaccggg ggtctcgttc ttccctcttc 540
 ctggttttct gttttttttt aatgttgag tgcggttgt cttaatctcg atcgtgattt 600
 gagggatggt gcttt 615

<210> 5575

<211> 616

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-K6-D8

<400> 5575

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 tctttctgca tgttttttgt ctaacgcgag ccatttttnn cctcaatact cacaagtctc 120
 tctatagtct gcnnccttct tcccccatc ccttccatca ggtggggcgg gtggtagtat 180
 nngtgaaaac ccannccct tcaaccctta ccaggatcnc cagcaagcaa tcgcaacca 240
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 taccattcag ccagctagct actgcctact ctgagcagca acaatttctt ccatttaacc 540
 aattggccgc actgaacccc tctgcttatt tccagcagca aataactacta ccatttggcc 600
 agctagctac aacaag 616

<210> 5576

<211> 542

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-K6-D9

<400> 5576

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 agcgggtgtct tcatgtgggg gggggggagg ttcaacccta caggatccaa caggcaatcg 180
 caacaggcat cttaccatta tcacccttgt tctccaaca accgtcagcc ctattacagc 240
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 cctaccccca gcaatttctt ccattcaacc aactagcagc attgaactct gctgcttatt 480
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 tg 542

<210> 5577
<211> 644
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-111-Q1-K6-E10

<400> 5577

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tctacctacn ncgaaagcgt cacagctacc cgcgacaaaa tccatatctg ttaccgggn 180
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ttaaccgtcc ttatgggtga gtactctctg gaattgctgt tagggagaga attatccgtg 420
ctttcttggt tgaggagcag aagattgtca agaaggctct gatattacag aaaaccaagg 480
acaagacagc tgcaaagtag agctccagga atggaatgga agcctagaca ctgggagaag 540
taattctggt ggggtgaaaa tctgtttgcc ttgtgtcgag catttaccct gtgagacatg 600
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<210> 5578
<211> 632
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-111-Q1-K6-E12

<400> 5578

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ctgcatgtgt tgctaacgcy accatctttc ctcaatactc acaagctcct atagctgcc 120
ttcttcccc atacctcca tcaatgaccg ctttagtatg tgaaaaccca gcccttcaac 180
cctacaggat ccagcaagca atcgcaaca gcaacttacc tttatcacac ctgttctttc 240
aacaatcgcc agccctatct ttggtgcagt cattggtaca aaccatcagg gcagaacagt 300
tgagcaact cgtgctacca gtgatcagcc aagtagctct ggcaaacctt tccccctact 360

ctcagcaaca acaattttctt ccattcaacc aactgtctat actgaaccct gctgcttatt 420
 tgcagcaaca acaactacta ccattcagcc agctagctac tgcctactct cagcagcaac 480
 aattttcttc atttaaccaa ttggccgcac tgaaccctc tgcttatttc cagcagcaaa 540
 tactactacc atttggccag ctagctacaa caagccccgc ttccttcttg acacaacaac 600
 aagtgcttcc gttctaccag cagtttgtgg ct 632

<210> 5579
 <211> 564
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-111-Q1-K6-E7

<400> 5579

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 ggggggggggg gggctgtacc cctacgcgga gtacctgagg cagccgcagt gcagcccgct 180
 ggcggggggcg ccctactacg ccgggtgtgg gcagccgagc gccatgttcc agccgctccg 240
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 gatggcgcag aacatgccgg ccatgggtgg actctaccag taccagctgc ccagctaccg 480
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 ggaaatctcc tctatccatc tctc 564

<210> 5580
 <211> 536
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-111-Q1-K6-E8

<400> 5580

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gaccagaatg caactgctgt gctgtatggg ggggggggacg agacaagcgc aacaataaag 180
accgagtctt gctactcgag taatgctgat tttgccttct gtgggaacac tttcctggaa 240
tcattgccagt cgataggatga tgcattctggg ggtggatcct tcagcagctc agagttgaat 300
gggcaaccac taaacgattc aattttggat atggagtcatt catcatttag cttcttgaac 360
caaatgcccc aaagcttcat gttttcagac ctggcagatg atttcaacca aaatgcagaa 420
ataacaccat ttctcactcc tgagacaaaat ttctccgatt caacaggggg agaccataca 480
ggttgagcgg gtcattgcaca gcgtaccaac catttgtaca taggcacatg ggcatg 536

<210> 5581

<211> 634

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-K6-F1

<400> 5581

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cctccttatg ctccttgggc tttctgcaag tgctgctacg gcgaccattt tcccacaatg 120
ctcacaagct cctatagctt cccttcttcc cccgtacctc tcaccagcgg tgtcttcggg 180
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acctttatca ccttgttcc tccaacaatc atcagcccta ttacagcagt tacctttggg 300
gcattttattg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360
tgctgcctac tctcagcaac aacagtttct tccattcaac caactagctg cattgaactc 420
tgcttcttat ttgcaacaac aacaactacc attcagccag ctatctgctg cctaccccca 480
gcaatttctt ccattcaacc aactgacagc ttggaactct cctgcttatt tacagcagca 540
acaactacta ccattcagcc agctagctgg tgtgagccct gctaccttct tgacacaacc 600
acaattgttg ccgttctacc agcagctgc gcct 634

<210> 5582

<211> 641

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-111-Q1-K6-F10

<400> 5582

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gctggcgccg gcctgacgac gatgatgggc gccggcgggc tgtacccta cgcggagtac 180
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acgagcgcca tgtaccagcc gctccggcaa cagtgtgcc agcagcagat gaggatgatg 300
ggcgtgcagt ccgtcgcgca gcagctgcag atgatgatgc agcttgagcg tgccgctgcc 360
gccagcagca gcctgtacga gccagctctg atgcagcagc agcagcagct gctggcagcc 420
caggggtctca accccatggc catgatgatg gcgcagaaca tgccggccat ggggtggactc 480
taccagtacc agtaccagct gccagctac cgcaccaacc cctgtggcgt ctccgctgcc 540
attccgccct actactgatt catgatattt gggaaatctc ctctatccat ccctctctat 600
ctatatatgt aataatgcag taagacgaca cacattatca t 641

<210> 5583

<211> 611

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-K6-F11

<400> 5583

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tcacctaact gcaaagagcg acatctatag ctttggggta gtgcttctgg agatgctgtc 180
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tcaatacaat ctgaacggtg cacaacaat tgctgccctt gctctogaat gcctatccta 360
cgaagctaag atgaggccga ctatggacgc tgtggttgct atcctagaag agctccaggg 420
ctctggtgaa gccgagaaga agcttcaaga acccaaggcc ggaaccaaac aggcacctgc 480

tgctgtgagt gctagcatga gcagcagccg caagcctcgc cggaaaagtc tgggagacac 540
aaaggtcggt ggtggtccag atcccaaacc attggcccat tctcgtagc aagggaaagc 600
attgctggt c 611

<210> 5584

<211> 652

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-K6-F2

<400> 5584

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aaccatgg ctaccaanna tattatccct ctttgcnct tctntgccct ttttgntgag 120
cgcaacaaat gcgttcatta ttccacaatg ctacttgct cctagtgccca ttattccaca 180
gttcctccct ccagttactt caatgggctt cgaacacca gctgtgcaag cctacaggct 240
acaacaagcg cttgcggcga gcgtcttaca acaaccaatt gcccaattac aacaacaatc 300
cttggcacat ctaaccatac aaaccatcg aacgcaacag caacaacaat ttctaccagc 360
actgagccaa ctagctgtgg tgaacctgt cgctacttg caacagcagt tgcttgcatc 420
caaccactt gctctggcaa acatagttgc ataccaaaa caacaacaat tgcaacagtt 480
tctaccagcg ctacgtcaac tagccatggg gaacctgcc gcctacctac aacagcaaca 540
actgatttca tctagccctc tcgctgtggt taatgcacct acatacctgc aacaacagtt 600
gctgcaacag attgtaccag ctctgactca gctagctgtg gcaaacctg ct 652

<210> 5585

<211> 91

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-K6-F4

<400> 5585

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tctcgaccgc gtgaagaaca tgacaggcct g 91

<210> 5586
 <211> 603
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-111-Q1-K6-F7

<400> 5586

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gttgaggcac cagtttgtat gcaggattct tcctcctaag agtggaaagc taattagttt 120
taaaccataa tccacctcaa tatatatgaa ttaaagtgca tagatgtggc aacaacggtg 180
aagataaaca tctatttgta cagcaaacgc aggcctccca aagcggcatg gtcagttcga 240
gctcgccctg gggatgccgc cgctctgcc atcgagacg ccgtggagca tgcacggcga 300
cgtcgcagga catgaggctg cctaccagct ggtgacccga aacaccagg cgcccgcgcg 360
ccacgtcgag ataacggccc tgacggtgcc gacattttgg ggcagcgggc attgcccgga 420
gccgctcgtc atcctaagaa aggcagcacg gtggcctgct agtacgtgac gggatctggc 480
agcgcaggga acggggggac agacggcagg agcatgcacc acatcgacgt gaacatggag 540
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acg 603
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<210> 5587
 <211> 467
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-111-Q1-K6-F8

<400> 5587

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atttcagca gcaaatacta ctaccatttg gtctcttttc tacaacaagc cccgcttcct 120
tcttgacaca acaacaagtg ctttcgttct accagcagtt tgtggctaac cggggggggg 180
ggggacaact gcaacagttg ctgccctttg tccaacttgc tttgacaaac ccagcagcct 240
tctaccaaca acacatcatt ggcgggtgcc tcttttagat tgcttattag ttgtaattca 300
ataatgaagt tttttggctg atgtatgtgg cctcctagaa aaagaagtta tattttccaaa 360
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ncaaaacatt tgtgggnaac ctttctgctt actctgagcg ccatccattg gttgccttgg 420
accaggtgtc tacactgaaa ccctgctgct tattagctgc aacatct 467

<210> 5588

<211> 624

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-K6-F9

<400> 5588

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aagctcctat agcttccctt tttcccccat acctctcacc agcgggtgtct tcggggggggg 180
gaaaacccaa ttgttcaacc ctacaggatc caacaggcaa tcgcaacagg catcttacca 240
ttatcacctt tgttctctca acaaccgtca gccctattac agcagttacc tttggtccat 300
ttggtggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct 360
gcatactctc agcaacatca gtttcttcca ttcaaccaac tggctgcatt gaactctgct 420
gcttatttgc aacaacaatt accattcagc cagctagttg ctgcctaccc ccagcaattt 480
cttcatttca accaactagc agcattgaac tctgctgctt atttacagca gcaacaacta 540
ctaccattca gccagctagc tgatgtgaag cctgctgnct tcttgncaca acatcagttg 600
ttgccgtttt acctgcacgc tatg 624

<210> 5589

<211> 265

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-K6-G1

<400> 5589

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ctgctgccgc gtccacgatg ggggggttctg tgaagaccct agnccatgcg ttttcaacgt 120
ttccagtga attcagaagg cgggctggct tgacgactca gggccggata aggctgntta 180

accnagacat anccagtcca acacacccaa ttcagatttg ttgtgcgatt taccaacagg 240
 tacatcactg cncaaactcat ttctg 265

<210> 5590

<211> 574

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-K6-G10

<400> 5590

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 ttcccttctt ccccggtacc tctcaccagc ggtgtcttcg gtatgtgaaa acccaattct 180
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 cctccaacaa tcatcagccc tattacatca gttacctttg gtgcatttat tggcacaaaa 300
 catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcct actctcagca 360
 acagcagttt ctccattca accaactagc tgcattgaac tctgcttctt atttgcaaca 420
 acaacaacta ccattcagcc agctacctgc tgctacccc cagcaatttc ttccattcaa 480
 ccaactggca gcattgaact ctctgctta ttacagcag caacaactac taccattcaa 540
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<210> 5591

<211> 652

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-K6-G3

<400> 5591

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 caaaaagagc gcaaagacag gatagaagat gggaacaggt cgatgggtgca gagatttagg 180
 tctcaactga cccatcagct ggatgcattg cataaaactg tatccagttc tgtcatgcaa 240
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gaggctgcac aagggtctaag agaggggtgtg caaaagctca aagtcttgca tggttccggt 360
atcactgctc tggatgaatt agcaggtgaa atcgacatga actcgcgac aacatttgag 420
agattaaatt cacagataca gtcacacaca tcagcccttg agaactgttt cggaggaatc 480
gcttcggaag cagataactt gttagatgag cttcagcgca gcctatcgaa acaagaagag 540
aggctagccc atttcgcagt gaagcagagg gagggacacc tgagagctgt ggaagcgtca 600
cgttccatct caaagacact gctgggttct tccactcgct agatgtccat gc 652

<210> 5592

<211> 562

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-K6-G7

<400> 5592

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ctctgcaatg caggtgccct gccctgcgc ggggctgcat tttttgtacg gcgctggcgc 120
cggcctgacg acgatgatgg ggggcggcgg gctgtacccc tacgcggtgt acctgaggca 180
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caaccccatg gccatgatga tggcgcagaa catgccggcc atgggtggac tctaccagta 480
ccagctgccc agctaccgca ccaaccctg tggcggttcc ggtgccgttc cgcctacta 540
ctgattcatg atatttggga aa 562

<210> 5593

<211> 609

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-K6-G8

<400> 5593

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aagtgtgtgct accgcatctt ttttcccaca atgtctcaca gctcctatag cttccttttt 120
ttccccatac ctctcaccag cgggtgtcttc agtgtggggg aaaccaatt cttcaaccct 180
acaggatcca acaggcaatc gcagcaggca tcttaccttt atcaeccttg ttcctccaac 240
aaccgtcagc cctattacag cagttacctt tgggtgcattt gttggcaca aacatcaagg 300
cacaacaact acaacaactt gtgctaggaa accttgtctgc ctactctcag caacagcagt 360
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cattgaactc tgctgcttat ttacaacagc aacagctacc accattcagc cagctagctg 540
atgtgagccc tgttgcttct ttgacacaac aacagttggt gccgttctac ctgcacgctg 600
cgctaacg 609

<210> 5594

<211> 567

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-K6-G9

<400> 5594

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tgaagttgat attacaaaca caaaaggctt ctggaagggtg aacgaggaca gggtatagct 180
caaaaggatg taattgttgt aggagaatct gcgctgttca ctctgatga tatttcgttc 240
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agacgacgca gaagagcaac ataataagcc agaaacgcta ctccgggttg catcattttg 420
tgtagggtgag aaaatccagc gttgcaatct gaaatccacc ctttcgcaa tttttgatcg 480
gtcgttctgt ctacctgacc tgccaacttc cccatgctgc tattcttttt tgcgaccgag 540
ccatctctgt tattacagat ttagtg 567

<210> 5595

<211> 461
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-111-Q1-K6-H11

 <400> 5595

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gaaaacgccg ggaacacaaa cagcacaggc actaccagac aaacccccgc ccccccaaaa 180
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acaaggaacg ggccccgcag cgaagcacta aaggaggcgg gggcgcccgga gagacaaacc 300
ggaacaccac aaaatgcgac acccccgcca ccccggcgg catcactccc cccttggtta 360
aaaaccaagc gccgcaaggt gaaccccaaa attcaaaaaa gggggaaccc ccaggggagc 420
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<210> 5596
 <211> 595
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 5596

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tggagctttt cgtatatgcy acaaaccgag agattttctt aacaacaaca gagcatgatg 180
ttagagaaat ttggctcaag cgcaaaatta ggttgcttcg tgggagtgat gcatggcctg 240
aacaatgat atgagcaaaa ttgcactatg cttccttgca gtacctctt ccatctctg 300
tcgctgcctc taccatatct acctgaagga acaaatttga gtgcatcttc tgttgacagt 360
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<210> 5597
 <211> 666
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-111-Q1-K6-H5

<400> 5597

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 aacaatggca gctaaaattt ttgcctcctt atgctccttg gtctttctgc aagtgtgtgt 120
 acggcgacca ttttcccaca atgctcacia gctcctatag cttcccttct tccccgtac 180
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 ctattacagc agttaccttt ggtgcattta ttggcacaaa acatcagggc acaacaacta 360
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 aaccaactag ctgcattgaa ctctgcttct tatttgcaac aacaacaact accattcagc 480
 cagctatctg ctgcctaccc ccagcaattt cttccattca accaactgac agcattgaac 540
 tctcctgctt atttacagca gcaacaacta ctaccattca gccagctagc tgggtgtgagc 600
 cctgctacct tcttgacaca accacagttg ttgccgttct accagcacgc tgcgcctaac 660
 gctggc 666

<210> 5598
 <211> 650
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-111-Q1-K6-H7

<400> 5598

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 aagctcctat agctgccctt cttcccccat accttccatc aatgaccgct ttagtatgtg 180
 aaaaccacgc ctttcaacct tacaggatcc agcaagcaat cgcaacaagc aacttacctt 240

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cttattttcca gcagcaaata ctactaccat ttggccagct agctacaaca agccccgctt 600
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<210> 5599

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-A1

<400> 5599

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accaccgagg aggctcatgt gtgagaaaga cgccgcgagg atggacgctg ccttcctcat 180
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gaggcaacga gtcagcaggt ccagcatcca tgcttatcct tttcctttgt gtttctattt 360
gatctgtaaa tttgcccgcg ccagcaacag agaagaatgt ggcccgtggc tgtaatgggt 420
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<210> 5600

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-A11

<400> 5600

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aggcctatct ttggctcagt catataaaca aaccattaca gcgcaaccaa ttcgacaact 180
 ggaacaaaca gtgattactc aaagtactct ggcacatacc tgtctgacta ctctcagcaa 240
 caacaatttc ttaacattca ccaactgtct acactgaacc ctgctgctta tttaacaaca 300
 caacaactac t 311

<210> 5601
 <211> 541
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-A2

<400> 5601

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 caacatggat ggacatatag ctacatttac tgaactcaat aaatgacgca caaagtgtgg 480
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 g 541

<210> 5602
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-A3

<400> 5602

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 tatttttgaa cgtgctgtta caggaacaat taagcgggct gctcacaagc tggtatggct 180

gtcctatattt ccccgacct gtaaacaag gtggttgaag ggtgtgaaaa cccaaatttt 240
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ctacaacaat catggagctc ctatcacata gctaccttaa ggggcattta ttgggacaca 360
acataataag cacaacaact acaacaactt gtgctagcaa accttacaaa ctactgtgag 420
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<210> 5603
<211> 564
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-A5

<400> 5603

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atggtggagg cggaatggga ggaggggaag caggggatga ggaagaggaa gcggtacggg 180
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<210> 5604
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-A7

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gggctgcagg gcttgtacat gcgctaactc cagcctgaca acaatgatgg gcgccggcag 180
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<210> 5605

<211> 580

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-A8

<400> 5605

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<210> 5606

<211> 550

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-N6-A9

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ctgatataag ctataaatat gattattaca aacaccctaa attgacgata aaaatgagct 480
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<210> 5607

<211> 556

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-B1

<400> 5607

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ccggggggga tcaccc 556

<210> 5608

<211> 496

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-B10

<400> 5608

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aacaaccat gagggcacag cagctcaatt caactaatgc tacctgtgat caaccaagta 420
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<210> 5609

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-B11

<400> 5609

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gatgatacta atgaccaaac tgtcgaagca agcttagttc aggagaaaat tctacaatga 180
catccataaa aatggtgggc gagggattga ccactaaata atacataaca tctaaaaaca 240
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<210> 5610

<211> 553

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-B2

<400> 5610

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gtgtgcgcac aactgcccc a gttatggccc cacgaaccca ttatggttat gcagcaggat 180

tacatggacg ctagatgaac tgttgggaac tctcccgcg cttggtgaac agctaaaccg 240

ttatttcagt ctcgcgga c gaaagaata acttgcgcc cgtgttgag atctctaaga 300

ggatcttgcc tacacgacgt ctaaacttgt ggctgtacgt gttttctcaa ctgaaattac 360

tgtgaaatca ctgttgctca ccacattaaa gcccttagca tacattctca tttctgcagt 420

tgctattgaa tgaaataagt cacattaatt gggctcttgc aactgttgcg tctcctgaat 480

ggagaattgc gcctgcagct gcatttatta attacgcac tctccgggat atgacacctg 540

atatattgca ctc 553

<210> 5611

<211> 350

<212> DNA

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<400> 5611

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atatacccat aactgtaaca cactcgagcc cataactcgt gtagtcaagg cactatagtc 120

atgataagca tacaagacag gggcgctcagt aatcaagata acgctgtagg ggacagcttt 180

ttgttagata tagctagtgc aacactctgt agtgatattg gtacttgtga caagctttcg 240

gtaggttcc cttgaggatc tacagtgaac actacttgca ctggctactg atcaaacaga 300

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<210> 5612

<211> 130

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-N6-B5

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 tggcaaaaca 130

<210> 5613

<211> 615

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-B8

<400> 5613

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 tgtgctgtta ccgctacctt attgcaacac tgctcacagg ctctactat ttcccttctt 180
 cccccgaacc ttccaccaac tgggcaaata aggatgtgaa aacgcaattc tttaaccta 240
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 gttctgcat acaaccaact atctgcattg aactctgctt cttattatca acaacaaca 480
 ctaccattca tccagctatc tgctgactac cccagcaat tgcttgagct caaccaactg 540
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<210> 5614

<211> 551

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-B9

<400> 5614

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 ccattatacc acagttcctc cgaccagtta cttcaatggg cttogaacac ctagctgtgc 180

aagcctacag gctacaacaa gcgcttgcg cgagcgtctt acaacaacca attaaccaat 240
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 aattgcaaca gtttctgcc gcgctcagtc aactagccat ggtgaaccct gccgcctacc 480
 tacaacagca acaactgctt tcacttagcc ctctcgttgt gggtaatgca cctacatacc 540
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<210> 5615

<211> 627

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-C1

<400> 5615

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 aactgtaact gctgatacag cgaccatggg ccccaacgcg caaggctgct gtagcaaac 180
 tgcttgcccc gtaccagtaa gcagcgggga tggcagcatg tgaagaacca gtaatagggc 240
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 cagcagctgg ttgcatggaa ccaactagct gcatagaact cagcttctta taaggcacat 480
 caacaactac catgcaacca actacctgtg gcctaccccg aacaatggct tgcattcaaa 540
 caactgggaa catggagctc cctgcgtat tgacagcatc aacaactact agcatccagc 600
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<210> 5616

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-C10

<400> 5616

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aacagctacc accattcagc cagctagctg atgtgagccc tgttgccctc ttgacacaac 180

aacagttgtt gccgtttctac ctgcacgctg cgctaacgc tggcacccctc ttacaactgc 240

aacaattgct gccattcaac caacttgctt tgacaaaacc aacagcgctc taccaacaac 300

ccatcattgg tggcgcctc ttttagattg cttatgagtt atacttcaat aatgaagttt 360

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<210> 5617

<211> 495

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-C11

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aagggtatct gcttcaacaa gcaatggctg ataaagtata actgcatcca tggcaccaat 240

tgctgctctt cctgagaggc atgtacaatg catacctctg atacagcatt aacaacctgt 300

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ttgcttgcat taaaccact tgctctgcac aacttagttg ctaaccactc gcacaaactg 420

ttgcaacaat tgttgtcaga ggtctgtcaa ctaattatgg agaaccctgc cgcttaacta 480

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<210> 5618

<211> 663

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-C12

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 ttacaacaac caattgcccc attacaacaa caatccttgg cacatctaac catacaaacc 360
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 cctgtcgctt acttgcaaca gcagttgctt gcatccaacc cacttgctct ggcaaacata 480
 gttgcatacc aacaacaaca acaattgcaa cagtttctac cagcgctcag tcaactagcc 540
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<210> 5619

<211> 570

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-C3

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 agaccatttg taaaaaaaaa aaacacaaaa 570

<210> 5620

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-C4

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gaacaaacca ttaagcacia ccaactgcaga aactggagct acctctgac atccaagtag 180
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<210> 5621

<211> 473

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-C8

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<210> 5622

<211> 630

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-111-Q1-N6-C9
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 <212> DNA
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<210> 5624

<211> 559

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-D4

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<210> 5625

<211> 583

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-111-Q1-N6-D5

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<210> 5626

<211> 497

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-D7

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 atgatagctg ttgactgacc ataatgagtt cgtgtgcgca caactgcccc aatcatgggc 120
 ccacgaagtc attgttttta tgcagcagga gttccatgac gatagatgaa ctgtgtggac 180
 ctctcccgtc gcttcgtgaa caactaaacc gttatgtcag tctcacgggg acgaaagaat 240
 aacttgcgcc tcggctggca catctgtgag aggatcttgc ttacacgacg tctaaacttg 300
 tgactgtacg tcgtttctca acgaaattac tgtgaaatca ctgttgctac ccacataaat 360
 gcccttggca tacattgtcc tgtctgcagc tcgtaatgta tgaaataagt cacattaatt 420
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 attacgcac tctccgg 497

<210> 5627

<211> 534

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-D8

<400> 5627

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ataggaaagt gtaactcatt attcataaga gggcacctac gtcagccaaa atattttatc 120
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 tgcaaaggct cttatatctg caattcttgt cgccatacat ggccatcaac tgactcgcat 240
 ttgtaatgag aaaaccagc ctttcaaccc ttcatgatcc aacaggcact cttgacaggc 300
 aactaacatt gatcacacct ttgctttcaa caattggcca acctatcttt ggtgcagcta 360
 ttggaacaaa ccataagggc taaaacaggt gcatcaactc aagctaccaa agatcagcca 420
 attagcatct ggcaaaccct tccccctact ctgagcaaca acaatttctt tcattcaacc 480
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<210> 5628

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-D9

<400> 5628

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 gcatgtgaga aacggcatca acacgatgtt gaccattaag gctccaacat tcacataacc 120
 tattacatta aatagcatta gtccatgttg ctgtacataa catcaaggat caaaagctac 180
 tacatcttgg aatggaaaaa attgctggga tactggtaag caactacctg ccttaacgtt 240
 caaccaactg gcaaatatcc aactctgttc attacttcca acagcaataa cgaaaaaacc 300
 tgctgtttgt 310

<210> 5629

<211> 638

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-E1

<400> 5629

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 gccgtgtgct tcatcacgaa ctgtgccata agcatcactc atgtactgga gccttgatcg 120
 acaacctccg caacaggagc atggccgtgt acggcacaca caacctcaac tagcctaaca 180

caatataatg caggggtgcat ggcagaatgc acttcttcag caatgttggt ggcagcagcc 240
 ccaacatact acagggggca tgtgtctact actatagata gccctcaaac ttaaaaaatt 300
 gtgatgaatt cctaattgcat cacatcggtc ctttggtaat gccttctgta caatcacttg 360
 agctacaacc aagtaggttt caggtattgc ttgagcatga tgtgtgtatc tataagcaca 420
 tcgagccacg atacattaca ccaagcgaat ctacagcatg gttcaatcca taatgcaaga 480
 ggggcttcac caacggctct gctagttatg tgggtctcaa cgagcttctc atagagcgga 540
 ggcaactgttg acagcagcac agttcctacc atgaatgtgc ggcttgctcc actcatacta 600
 ccaaaataat ccatgcagca tcaactgacat tagtggtg 638

<210> 5630

<211> 627

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-E10

<400> 5630

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 ggcggctggg gacagagagg ggccccgcct cacctcaccg aaaggggaca ggtgacgcgc 180
 acaaattcaa tcaaaccgt ggtcgagaag accccaagag ggaagcttgt gtaccaatac 240
 accaagaaga gggcgagcgg cccaagtgc cccggcaccg ggaagaagat ccatgggatc 300
 ccgcactcga gacctgccga gtgcaagagg ccaggttgt ctaggaaccg caagactgtt 360
 aaccgtcctt atggtggagt actatatgga attgctgata gggagagaat catccgtgct 420
 ttattggctg acgagcagaa gactgtcaac aaggccctgg atattcagaa aaccgaggac 480
 aagacagctg cgaaggagag ctccaggagt ggcattggaag cctatacact gcgagaagta 540
 atcttggggg ctggaaaatc tgtttggctt gtgtggagca tatagcctgc gagacatgcc 600
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<210> 5631

<211> 496

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-E12

<400> 5631

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cccttcaacc ctacaggatc cagcaagcaa tcgcaacaag caactgacct ttatcacacc 120
tggtctttca acaatcgcca gccctatctt tgggtgcagtc attggtacaa accatcaggg 180
cagaacagaa gcagcaactc gtgctaccag tgatcagcca aatagctctg gcaaaccctt 240
ccccctacta tcagcaacaa caatttcttg cattcaacca actggctata ctgaaccctg 300
ctgcttattt gcagcaacaa caactactac cattcagcca gctagctact gcctactctc 360
agcagcgaca atttcttcca ttttaaccaat tggccgcact gaaccctctt gcttatttcc 420
agcagcaaât actactacca tttggccagc tagctacaac aagctccgct tacttcttga 480
cacaacaaca agtgct 496

<210> 5632

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-E2

<400> 5632

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tttctaccag cagtttgagg ttaaccccgcc aacctctta caactacaac aattggtgcc 180
ctttgtccaa cttgctttga cagaccagc gggctcctac caacaacaca ttattggtgg 240
tgccctcttt tagattgctt attagttgta attcaataat aaagtttttt ggatgatgta 300
tgtggccaac cagaaataag aagtttcatt tccaaagaaa aaatcttatt attttaaaaa 360
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<210> 5633

<211> 489

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-F1

<400> 5633

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ataaaaacaa ctttgtcata catgggaagc caaaacatta gcctaaatat gcttcttgga 120
ccttttgcta atactaattc taaaacagtc accaccaatg ctgacaagct gctataactc 180
tccttgtttc gccaaaccta gtaccatcaa tggcttcaat ttgtgaaaac ccaattaggt 240
aaccctatta gatccaacat gctattacaa ctggaataat tacctgttat caccacttag 300
atgcgccaac aatcatacca gcctatctac agtaaatagc cttaggtgca tttattggca 360
cataaacatg agagcacaaa aactacaaca acttgaacta aaaaaacttg ttggcgatg 420
ctaaaaacaa caggctgtat cattcaacca actagctgca ataaaatctg cttcttattt 480
gcctcaaca 489

<210> 5634

<211> 640

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-F10

<400> 5634

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taacagtaac agcatgtaag atggtaaaac gaactcgtcg tgtgcctggc tctgtcagcg 120
tgccagcgcc tctgcaatgc aatgccctgc cctgcgcgg agctgcaggg tcttgtacgg 180
agctggcgcc ggactgacga ccatgatggg cgccggcggg ctgtaccctt acgcggagta 240
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gacgagcgcc atgtaccagc cgctccggca acagtgctgg cagcagaaaa ccaggatgat 360
cggcgtgcag tccgtctcgc aactaatgca tatgatgatc cagcttgagc gtgccgctgc 420
cgccagcaga agcctgtaca agccagctat gatgcagcag aaggagtagc tgctgataat 480
ccagagtctc aaccccatgg ccatgatgat ggcgcagaac atgccggcca tgggtggact 540
ctaccagtac cagtaccagc tgcccagcta gccgaccaac ctctggggcg tctacgctgt 600
cattgcgggc tactactgca tcatgacata tgagaaatct 640

<210> 5635

<211> 586
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-F11

<400> 5635

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tgccaaactc cctgataccg gatggactaa cgacggagcc cacagcgagt aagagccgcg 120
agctcacaag cagtcattgag gaacatgacc ggacgcagct cctcgttggt taccaacatg 180
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tgccaggccg gcgggctcat tgctaataaa ccgactcaca gtgagcaca cctgggtggag 300
tgcgctctac tgtacctgac acataatctc aagataacca gaatcctgga taccatgcag 360
gaaagcaaac acaatctgaa cagtgcacaa acaattactt tccttggctc cgaatgccta 420
tagctacgaa actaatatga ggcccactat ggacactgta ttgctatcc tacaagagct 480
ccaggactct gaatatagcc gagcagaagc ttgaagaaca caagagccca accaaacagg 540
aacctgctga ccgtgagtgc tagcattagc agaaggcgca agcctc 586

<210> 5636
<211> 650
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-F12

<400> 5636

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aattagctca ttcgattcca tattggagaa ctgcacacca tgtaagggtgc tgcattcgtg 120
cccttgctct cctggcgctc gctgcgagcg ccgtctccag tacaagcggc ggctgtggct 180
gccagacacc accgtttcat gtaccggctc cgttctatat gccgcctccg ttctatctgc 240
cgacgcagca gcagccgcag ccatggcaat accccactca accaccgcag ctaagcccg 300
gccagcagtt cggatcctgc ggcgtcggca gcgtttgcag gccgttcctg ggccagtgcg 360
tagagttcct gaggcaccag tgcagcccg cggcgacacc ctacggctcg tcacagtgcc 420
aggcgctgca tcagcagtg tgccaccaga tcaggcaggt ggagcccctg caccggtacc 480

aggcgacata cagtgtggtc ctgcagtcct tctgcagca gcagtcgtag ggcgagctct 540
 cggcgctgat ggcggcccag gtagcgcagc agctgacggc gatgtgcgga ctgcagctgc 600
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<210> 5637

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-F2

<400> 5637

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 ctggctgcta ccaccattat gccacagtta ctacatacaa ctagttgaat gggctgaaaa 120
 caccagctg tgcaaacgta caggctacaa gaagcgctcc cgatgagcgt ttaacaaaca 180
 ccagttgcc aagtacaaca acaatccttg tctcatctaa ccatacaaac caattgaaac 240
 gggatcatga acaacaattt ctaccagcac taaaccaaac atgtgcagtg aaccctgaa 299

<210> 5638

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-F4

<400> 5638

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 acagcaagaa cactcgcttg cagtgcgctg gtaaacctgc tgatcgcttg cggacaccac 120
 ggaaaggagt ccaaggacag tgcaggaccg ggcttgtttt aattatattt tcagcctact 180
 aatcgagtgc aagttgaacg ctcatctcca gggatatctg cttcaggtga accgaacatc 240
 taactgtgag cgtggccggt acatttgatg tacgaaggga ccattcttgc aaactgggca 300
 ctaccagagc agggtgacta gcttttatcg attccattac cagcgggtact 350

<210> 5639

<211> 652

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-F5

<400> 5639

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atgaaatgga gctttcacgg tgtgaaccag ttgttataac cgattattga agtccttaaa 120
ggaaatgcaa acatttcaaa atgcgttctt ttctaacaag ggttggtttg gaatgcactg 180
atcttgaggc gatattggc aaggatcgcg ttcttataaa tgagtgtatt gataaaataa 240
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atgtgcagtt tgttctatcc agcgaaagcc ttaagcatgg tattgacatg ttggaaagta 360
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ttgaggacat tggagcttta gaaagtgtca aagatactct gaaggagtta gtgatgcttc 540
ctttgcaaag acctgaactt ttaaccgag gacaacttat gaagccgtgt aaaggaattt 600
tactttttgg cccacctggt actggaaaga caatgcttgc taaggctgtg gc 652

<210> 5640

<211> 504

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-F7

<400> 5640

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gcgcatagat gtggcaacaa cgtcggaata taaacatata tttggacaga aaacgcagga 180
ctttccaaaa aagcatgatc agtgcgagct aactctggag atgccgacgc tctgaccata 240
ggagacacac tggagcatcg acggcgacgt ggaaggacat gaagtaacct accaactggt 300
gacaccgaaa acccaggcgg cccgccgtca cgaagagata acggtcctga ctgtgccaac 360
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ggcctgctag tacgtgacgg gatctggcag cgcagggaac ggacggacac acggcaagag 480
catgcaccac atctacgga acat 504

<210> 5641

<211> 544

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-F8

<400> 5641

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atactactac catttgcca gctagctaca acaagccccg ctttcttctt gacacaacaa 180
caagtgcttc cgttctacca gcagtttgtg gctaaccctg caaccctctt acaactgcaa 240
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atcattggcg gtgccctctt ttagattgct tattagttgt aattcaataa tgaagttttt 360
tggctgatgt atgtggcctc ctagaaataa gaagttatat ttcttaaaaa aaaaaaagg 420
gggttttttt ttttcccccc ccaaaggaaa aaattttttt ttttggggaa aaaaaaagg 480
gggggggggg gcccccccg taaaattaag aaaaaaatt ttttaaaaaa aaaagggggg 540
gggg 544

<210> 5642

<211> 481

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-F9

<400> 5642

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ctttgactta tatgcaagtg aagataccgc accacacaat gacgcattgc tgacagaaca 180
ctgtagattt cgttataaca agatacctgt aacggaagga attggtgaat gtgtgaaaag 240
gcaccagctg atagccttca ggggtccaag cagaacggca cacaatgcat ttgaccaaat 300
aagcattggg gctcacataa cctagatgcc tataacagaa gataccttgg tgccattaat 360
aagcacaaaa catcaatgct cataaactac agaattggaag aaattgctac cttgctgcat 420

actctaacta gcataatggt aattgcatgc aaccaactag ctgcatagaa ctctcatgct 480
t 481

<210> 5643
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-G1

<400> 5643

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ttacaggtgc gatttaccaa caaggacata actgtgcaaa ttatatctga taatatacag 180
tgtgatatgg ctaaagctta tgcctactct tatgagttgc cagcatatgc acttgaagat 240
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aagatccgcc ttttatatta cgagtatgag ggcattgttg acgtcactgc cgaggactca 360
tctggggagc cagct 375

<210> 5644
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-G10

<400> 5644

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aactccgccg ggctgtcaa aacaagtggg ttgagtggga gcaaaacca gcacttgaaa 120
catggaggca ccaacaggcg cacacagctg gcataacacc tacaacaccc gttgtattac 180
aacagtaata aggctcaaac catctagcta cctgaatggc atttattggt gctgctctca 240
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aacta 365

<210> 5645

<211> 561
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-G11

<400> 5645

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atthttccatc cttatgctcc ttgctctttc tgcattgtgtt gctaacgcga ccattttttcc 180
tcaataactca caagctccta tagctggcct tcttccccca taccttccat caatgaccgc 240
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aagtagctct ggcaaactt tctacctact ctcaacaaca acaatttctt ccattcaacc 480
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aactagctac tggctactct c 561

<210> 5646
<211> 601
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-G12

<400> 5646

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aactgactat gtcgaactct gctgctgacc tacaacagcg acaacagata cttaatccac 360
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accaattctc ttgataaac cctgtcttgt cgaggcagca acccatcgcc agaggcgcca 480

tcttttagat aacatatgag atgtactcga taatggcgcc ctcatccccg catgtgtttc 540
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c 601

<210> 5647
<211> 624
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-G2

<400> 5647

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cctttctgca gtgctgttac acacagcttt ttcccgcaat gctcgacaag ctccataggg 180
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tctaccctac atgatccaac aaggaatcgc agctcacatc ttaccttgte acccttggtc 300
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cgtgctagca aaccttgctc gctactctca gcaacaacag cctctgccat tcaaccaact 540
aactgcattg aactctgctg cttatttgca gcaacaacaa ctactaccat tcagccagct 600
agctgctgcc tccccccgc aatt 624

<210> 5648
<211> 593
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-G3

<400> 5648

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aatgcagaa gccgtgttcc tgggctattc tggcaaaata caccgcaaag acaggattca 180

acatgggaac aggtcccctg tgctcacatt aaggcttgaa aagacccatc aactccatgc 240
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 gaacacacat atgcaatcct caccttattt aaaagatgaa gctgctcaac ggctcttaga 360
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 tgtcacatca catacaaacc cttagacaac tgtttcaaca ggaatcgctt caaaagcaga 540
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<210> 5649

<211> 503

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-G4

<400> 5649

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 tatatcacag agaactgctt caatggcttc aatgggcttt gaacaccgaa gggagcaagc 120
 atatgggcta ccaccagtgc ttgatgaaag cactgtagaa catccaattg gccactaca 180
 acaacaatcc caggcacatg taaccatata aaccattgca tcgcagcagc aacaagcact 240
 gacacaccta gccgaggaga accctataca actactttga acaacatgtg gttgcatcac 300
 aaccacttg ctttgtgaaa cgtgcactgc ctaccaacag cagccacaga tgcaacagtt 360
 tctaccagcg ctgagtaaac taaccatgga gaaccctatg gtctactcta caacaggaac 420
 aaactgtttc atctatcccg ctgcgtatgg gcaatgcacc tacatacctg caacaacagt 480
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<210> 5650

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-G5

<400> 5650

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gcaaattggat gtgtggcgcg tacaatttgc aactgattaa atgcttttgc ctgggcttgg 120
ctacatacta cgaccacact cccagttatg acacaaactc attgcatcta cctgccattt 180
gacatccttg aaaggatgtg ggaccctttt aaactacgaa gactgaacgt ttaactactt 240
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tagttagaga ttaatagagc tcaactcagaa cttgtggtgt actacatact acctcaccag 360
atttttactc aacaaatcgg ggctactgac aattgtgcag taaggaccgc atattcctat 420
gttttttaggt tt 432

<210> 5651

<211> 551

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-G8

<400> 5651

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aaagagctca ttttatgtta ccggacaatg gccaccataa ttcaagatat ctaatgctga 120
acgatcactc atgaaggagc tgataccggg caccgtcaat gacagggtg acaggctgaa 180
catagctggc tttgttaaac aagctgttac aatgggagca ttgaggtgtg aaaaccagggt 240
gccagaacct tacgcgacca caggcagaac ggaaacagca gttgacgtgt ataaaacgcg 300
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aaaacattta aatgcatcaa ctacaacaac ttgggctaaa aaaccttggt gggtactctc 420
aacatcacca gatgggtcca tgtcaaccaa ctggatgcat tgaactctgg tgcttatttg 480
caacaacaac taccaactag tgatgctagc tagctggcta cccggagcaa tatcttacat 540
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<210> 5652

<211> 547

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-G9

<400> 5652

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actacttggg aatggcttgc ctatatcttg aggactttga cataatgagc actgaccgct 120
ttttatggat tgatggttta cagatcataa aaattaataa cctggatatg tagacatttg 180
aagttaatat tacaaacaca caaagccttg tgaaagggga actatgacat ggtatagctc 240
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gctcaaaacg ctgggggtcta agcggctcta gtatgcgaat tctttatcaa gcaagaggat 360
ccaatggaag cactctcttc gctcttcttg aaagaatata gcatgctgag actacctaga 420
ccgacgcata ataacaaacg atatatcaca acactgctca gggttgaatc atttacagta 480
agacataaaa ttgagcgtta aatctgaaat ccacactttc caaaagcctt tatcggtcgg 540
taatatt 547

<210> 5653
<211> 386
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-111-Q1-N6-H1
<400> 5653

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gcatggaggg ttgaaaaaaaa gactaaagac tggaccaaaa cgtaacattg gtcggcctga 120
ggatgtgtcc tcgatgtggg ttctcctatg tgatctgaaa tcgtcggggc ctgatgagga 180
cattgataag tggggtgaga ctgaccagag aaaaaaccta caccttggga gctggagcac 240
ttaaccacat ctttcaaaaa cctgatctat atcgaaaacc tgggtaacac taggtcacac 300
agaattgtaa ttaattggga ggagaacccc agctttggaa aatatccata gcccgcttac 360
tactttgttg agataaagct tgcttg 386

<210> 5654
<211> 418
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-111-Q1-N6-H11
<400> 5654

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 aaggataaaa aaaatttcaa aaaaaaaagt tatttttaaag ggtgaccaa taaaagaaaa 180
 atcgcgttcc aatgggaaat cgtaaaccct gaaaaatccc caaaaccaa acttacgaaa 240
 gaataaaaaa aaaaccctgg cgggcctatc aggaaaaaga aaaaaagaaa aaaaaatggg 300
 actcccttac cattttccaa tcgaaaaacc caaaaaaca gaccgctaaa tgaaacaaca 360
 aaaccggggg gaaaaagggg aagacaaaaa gggcccaaaa aagtttcaa ttaacaa 418

<210> 5655

<211> 544

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-H12

<400> 5655

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 aaggaatggg atgtgataac agctctggac aaatcatatg ctctggagct cttccaatat 120
 acgacaaacc gctagatttt cttaacaaca acaccacatg atgatacaca attagggtca 180
 agcgcaaatt tatgttacta tcagcgccag tgatacattg actgcacaaa tgatatgagc 240
 aacactgcac tatgcttctt tgcagtacct ttttccatct actgacactg cctctacata 300
 tctacctgaa ggaaacaaat ttcagtgcac cttatgttaa cagtggatgc aattcattat 360
 tgccactata caactaaaaa tagcactata gcattgatgg tgtctctaca acctggcaca 420
 tgactacata aaaagaagct acaaacatta tattcaaaaa ggctcatagc ttgtgatgat 480
 gccatagctt gctaaccatg actctcatac agttcatcac tactctagct aacttaacaa 540
 acta 544

<210> 5656

<211> 529

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-H2

<400> 5656

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ggagtccct gcgttcacac ttgggtgcct tgcgcttttg gcctttattg ctgtaagacg 120
gtttctctca tgttttggtg cggctcaaca tcctttcagc cggttaaaag aatttggaag 180
agttgggctt ctccccaagt taattctttt ttggctagcc tctctaaatc cgcgatggtc 240
agcttgcata ttgtcccagc taggatttgg tcaactcatga caaatgcctt ttttgcgatc 300
aacaggcaga aacaatcaca tattttgctc ttttgtgctg tctacacaaa cattttgtgg 360
cgggtgtgga gcaaagcggg tgatgcatca tctggcacct gagcctgtgg acattatttt 420
gcaccattgg tggtgcaatg ctgaacgcca agctccttta gataagagaa aggtcgtaac 480
acgcctgtaa tccttgttgt ttgctggctg tggaaacatc caaacactt 529

<210> 5657

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-H5

<400> 5657

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tagaaaggcc tttcttacca acggggggcc ctaacatata tacacaacct atgctactgg 120
accattactg catgagatgt ttcagagagc ctaccacca caatggtgac agcgcctata 180
gctgccgtgc ttgccaaagc ccgctgacca acagggacta atggttgcca aaaccaaagg 240
gtgccacct acaggacca acacggaatc aacggtgaca tctgacctg attacccaag 300
ttcctgcact aacaccagct ctttacagaa ggtaccttg gtgcattgat tgaaacaaaa 360
caagagggca cagctactac aacaactaat gctagaaaac cttggtggct actatcagaa 420
acatgagtga attgcattca accaactagc taa 453

<210> 5658

<211> 659

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-H6

<400> 5658

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 tgatgagacc accacattgt atctgcatat tcgggggtgcg cgcacccgat gaatccatga 120
 cgagagagat caaatgcgac ctccaaggct ggctgggatg atatcaccga cggcgctgtg 180
 gaatcatgcc tgaagatgag gctgaagagt gtggctgcca aacaactgaa tatctccatg 240
 gagaggattg ccctgctcaa ggcaaacagg ccaaagggtc caccgcata gacccatcaa 300
 gatgaggaag cagagcgaag gcagagcgag gaactagatg ggtttgaaa cccaaggac 360
 cctcgacgct ctacaagctc accgtggagg aggctgagca cctctctcta caggctgccg 420
 cgcttcagga gtggcaccag ctatgcaaag agagagccat gacagctcag tgaggagcat 480
 ttggaccgtg tggatcttac tcgcgtgtat aaaccatata tttttcttcg tctgccattc 540
 tttgcgtgtc tatactggtg gggtcactca ctgtgtaccc tctccgatgg ttcattgtat 600
 tctgaaatac ttgtgcacga aaaaactggt tggtaacata ctactgtttt ggcgttttt 659

<210> 5659

<211> 494

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-111-Q1-N6-H9

<400> 5659

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 cagccagcta cctgctgcct acccccagca attttctcca ttcaaccaac tggcagcatt 120
 gaactctcct gcttattgga cagcagcaac aactactacc attcagccag ctagctggtg 180
 tgagccctgc taccttcttg agacaaccac agttgttgcc gttctaccag cacgctgcgc 240
 ctaacgctga caccctctta caactgcaac aattgctgcc attcaaccaa cttgctttga 300
 caaaccagc agcgttctac caacaacca tcattggtgg tgccctcttt aagatttctt 360
 atgagttata gttcaataat aaagattttt gtctgatgtt tgtggcttcc cagaaataag 420
 aaagtacatt tctaaaaagg taaaaaggaa aaaaattctg ggggtaggca cacagaaact 480
 ggctgaaagg aaaa 494

<210> 5660

<211> 556

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-K6-A11

<400> 5660

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tttttgcaac tacaccataa ttgggaactg tgaaaagcaa atcctatgat ggcaccatag 120
gaaaaactgc tcagtgggag gggcggtagg attatacata gccataaagt ttcggcctag 180
gcaaaaaatt ggcaaaacgt gccctagtag acaatagcat agcctgattg tctaatacatc 240
cagctcaatg atcttgacca cataggaatc acccactttc tggcaaacga cgacgcggtc 300
gtgggacttg atcacgcccg aggctttgcc atgggtcaaga gcaaccttca acacagactc 360
at ttgtagca ctggtagatt cagctgggtg tcgcggtatca gcaagcatag ggaagaggcc 420
tctaactatg agtgattgtc ttgcctcaaa agcacctgtg aaactccact tcagttgggtt 480
tgtctttaga cgaggaatga caacagatag aacaggcatg ctgggcctgt acttagcaat 540
gagccttgca gctcgt 556

<210> 5661

<211> 316

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-112-Q1-K6-A12

<400> 5661

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gnaacatatg attacattat tccatctgcc catttaactg ttacaccgca gtttagtcga 120
gcaatttttg aactacacca taattggaac tgtaaaagca aatcctatga tggcacchnat 180
aggaaaaact gctcagtttt caagcgctat aggattatac atagccaata agtttcggcc 240
taggcaaaaa attggcaaaa cgtgccctag tagacaatag catagcctga ttgtctaate 300
atncagctca atgatac 316

<210> 5662

<211> 654

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-112-Q1-K6-A4

<400> 5662

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ccttggtctt tctgcaagtg ttgctaccgc aaccattttc ccacaatgct cacaagctcc 120
tatagcttcc cttcttcccc catacctctc accagcgggtg tcttcaatgt gtgaaacccc 180
aattgttcaa ccctacagga tccaacaggc aatcgcaaca ggcattctac cattatcacc 240
cttggtcctc caacaaccgt cagccctatt acagcagtta cctttgggtcc atttggtggc 300
acaaaacatc agggcacaac aactacaaca acttggtgta gcaaaccctg ctgcatactc 360
tcagcaacat cagtttcttc cattcaacca actgggtgca ttgaactctg ctgcttattt 420
gcaacaacaa ttaccattca gccagctagt tgctgcctac cccagcaat ttcttccatt 480
caaccaacta gcagcattga actctgctgc ttatttacag cagcaacaac tactaccatt 540
cagccagcta gctgatgtga gccctgctgc cttcttgaca cacaacagtt gttgccgttc 600
tacctgcacg ctatgcctaa cgctggcacc ctcttacaac tgcaacaatt gctg 654

<210> 5663

<211> 541

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-K6-B10

<400> 5663

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ttgatttcgc tgccagcttg gacgcttgat ggccagtggg cagacggggg gttaaagcac 180
ctgcgttgaa cggatcaatct tgtgctcacc acatgcttgt gctgggtgat ggctttgtga 240
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gatgaagata tgccttggtc agtcatggga gtgcgtttga tgttacctgt gtccttgac 360
atgttcgtgc cctcagccgt ccactagcgg cgcacttggt acaggtgccg ctactggat 420
ctccatctga cagatcggga agaacctctg gaaaggagcg gccagcaag gaaattagta 480

agatgtgaaa gcacccggac tgaaaagata tattgacaac tgattgatta agtgtttgat 540
t 541

<210> 5664
<211> 617
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-112-Q1-K6-C10

<400> 5664

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tcattattac cacaatagca cactatgctc cctaggtgcc attattacca cagtcttctg 120
gggtgggggt agcttcaatg aggcctctga acaccctagc tgtgncaagg cctacaggtc 180
tacaatcaag acgacttgct ggtcgagtcg atcttactaa caaccatatt gcgccaatta 240
ccaacaacag atccttgccg acatactaac catacacaac catgcgcaac cgcaacagct 300
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ttgcaacagc agttgcttgc atccaacca cttgctctgg caaacatagt tgcataccaa 420
caacaacaac aattgcaaca gtttctacca gcgctcagtc aactagccat ggtgaaccct 480
gccgcctacc tacaacagca acaactgatt tcacttagcc ctctcgctgt ggttaatgca 540
cctacatacc tgcaacaaca gttgctgcaa cagattgtac cagctctgac tcagctagct 600
gtggcaaacc ctgctga 617

<210> 5665
<211> 534
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-112-Q1-K6-C4

<400> 5665

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tagcaccaac agtggcgcgcg gggggggcgcc gcacttttcc gcccttctgc ttctcggtgt 120
ttgttcgtgc ggtgttcctt ccgcgcgcat gctcccatgc tctatcctt ctcttcttc 180

cccccccttccct ccctccgggc tttgattggg ggtgcgacaa ctccgttacc cacccttca 240
 tgaaccaact agggcatcaa cgagtggcat gcttgectca atcacccttg gtccctccctcg 300
 ttgcttcacc ctcttacagc actttccttg gggccattgt tggtnccaac cattgcgggc 360
 ccaccgcctc cgccaccttt gcctcctata ccttgctgac tactttcagc aacacctgct 420
 tctccttttc aaccacatcg cttgcttgca ctccaccttc ttgattgcat caacagctgc 480
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<210> 5666

<211> 350

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-112-Q1-K6-C5

<400> 5666

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 aagtgtgct acggcgacca ttttcccgca atgctcacia gctcctatag cttcccttct 180
 tccccgtac ctctcaccag cgggtgtctc ggtatgtgaa aaccaattc ttcaacccta 240
 caggatccaa caggcaatcg cagctggcat cttaccttta tcacccttgt tctccaaca 300
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<210> 5667

<211> 601

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-K6-C6

<400> 5667

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 gccatgctcc tatagctctc cttaccccc cgtgcctgtc accatccgcc tctcctgtca 180
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catttattgc ctcagaacat cacggcacia caactacaac aacttgact agcaaactt 360
gctgcctatc tctgaccaca gcacctactt gcattcaacc aactagctgc attgaactct 420
gcttcttatt tgcaacaacg acaactacca ttcacccagc tacctgctgt ctacccccag 480
caatcccgtc cacccaacca actggcagca ttgaactctc ctgcttattt acagctgccc 540
cacttactac cattcgacca gctagctgcc gtgagccctg ttaccttcgt gatacaacca 600
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<210> 5668

<211> 653

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-112-Q1-K6-C8

<400> 5668

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ccacaatgct cacaagctcc tatagcttcc cttcttcccc catacctctc accagcgggtg 180
tcttcaatgt gtgaaacccc aattgttcaa ccctacagga tccaacaggc aatcgcaaca 240
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cctttggtcc atttggtggc acaaaacatc agggcacaac aactacaaca acttgtgcta 360
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cagcaacaac tactaccatt cagccagcta gctgatgtga gccctgctgc cttcttgacc 600
aacaacagtt gttgccgttc tacctgcacg ctatgcctaa cgctggcacc ctc 653

<210> 5669

<211> 644

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-K6-C9

<400> 5669

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cgtgtccaag ctcaccggcc atgcgggcac gaggctcggg tgggcgctgg tgaaggaccg 120
cgaagtggcc aggaatatgg tctacttcgt cgaccgcagc accaccggcg tatgcaagga 180
gtcgcatatg cgcgccacca agatcctcgg ggtcgtctcc gacgcctacg aggtcgtccc 240
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cctggaggag cgctggcgca ttctgcgcgc caccgtggct gccaccggcg ccttcagcct 360
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tcaacatgct ggacagggac aacgtgttcg acatgctcgt ccagcgctc tcctctataa 600
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<210> 5670

<211> 653

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-112-Q1-K6-D1

<400> 5670

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atgtgttgct aacgcgacca tttttcctca atactcacia gtcctatag ctgcccttct 180
tccccatac cttccatcaa tgaccgcttc agtttgtgaa aaccagccc ttcaacccta 240
caggctccaa caagcaatcg caacaagcaa cttaccttta tcaccctgt tctttcaaca 300
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acaacaacaa ctactacat tcagccagct agctactgcc tactctcagc agcaacaatt 540
tcttccattt aaccaattgg ccgcactgaa cccctctgct tatttccagc agcaaatact 600

actaccattt ggccagctag ctacaacaag cccactttc tttttgaaac aac 653

<210> 5671

<211> 630

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-112-Q1-K6-D9

<400> 5671

ccggccgtgc gggggctcgg gnacgggacg ggacaggacc tcaaaatctc agatccttcc 60

tgcccgcccg cccgtgcccc tcgacgcgtc gttcttgccg gccgcgcccc acctccgccc 120

tctctctctc caggggatcg gatacgccac aggctgcgcg atgggtgctgt gggctcttcgg 180

ctacggctcc ctcatctgga accccggctt cgacttcgac gacaaaatcc tcggcttcat 240

caagggctac aagcgcacct ttaatctcgc ttgcattgac cacagaggca caccggagca 300

tccggcgagg acctgcacgc ttgaaaccga cgacgaggcc atatgctggg gaattgcata 360

ttgtgtcaag ggtggtccag aaaaagagct aaaagcaatg cagtacttgg agagaagaga 420

gtgtgagtac gaccagaaga tatccattga tttctacaag gaaggagatc ccttgaaacc 480

agctgtgaca ggcgtcttag tgttcgtttc cactccagat ccaattggca acaagtacta 540

tcttgccct gctcctttgc aggatatggc aatgcaaatt gctacagcca atggccctac 600

tggctataat agggattacc tggttctcaat 630

<210> 5672

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-112-Q1-K6-F7

<400> 5672

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tctctctaag atgtggcaaa gctaattagt tttaaaccat aatccacctc aatatatatg 120

aattaaagng catanatggg gcaacgacng ggaannaaaa catctatttn tacaacaaac 180

ccangettcc caaaacggca tggtcagttc gagctcgccc tggggatgcc gccgctctgc 240

ccatcgaga cgccgtggag catcgacggc gacgtcgag gacatgaggt cgcctaccag 300
 ctggtgaccc gaaacaccca ggccggccgn cgccacgttg tgatttcggc cctgacggng 360
 ccgacgtttt ggggcngggg gctttgcccg gtgc 394

<210> 5673

<211> 518

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-112-Q1-K6-G10

<400> 5673

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 ctactctcag caacaacagt ttctgccatt caaccaacta gctgcattga actctgctgc 120
 ttatttgcag caacaacaac tactaccatt cagccagcta gctgctgcct acccccggca 180
 attttctcca ttcaaccaac tggcagcatt gaactctcat gcttatgtac aacaacaaca 240
 actactacca ttcagccagc tagctgctgt gagccctgct gccttcttga cacagcaaca 300
 tttgttgccg ttctacctgc aactgcgcc taacgttggc accctcttac aactgcaaca 360
 attgctgcca ttcgaccaac ttgctttgac aaaccagca gtgttctacc aacaacccat 420
 cattggtggt gccctctttt agattgctta tgagttatag ttcaataata aagttttttt 480
 tgctgaaaaa nnnnnnnnnn nnnanaannn nannanaa 518

<210> 5674

<211> 538

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-K6-G11

<400> 5674

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 tgcaacagtt tatgccagtg ctgagtcaac tagccatggt gaaccctgcc gtctacctac 120
 aactactttc atctagcccg ctgcggtg gcaatgcacc tacgtacctc caacaacagt 180
 tgctgcaaca aattgtacca gctctgactc agctagctgt ggcaaaccct gctgcctact 240

tacaacagtt ggttccattc aaccaactgg ctgtgtcaaa ctctgctgcg tacctacaac 300
 agcgacaaca gttacttaat ccattggcag tggctaacc attggtcgct accttcctgc 360
 agcagcaaca acaattgctg ccatacaacc agttctcttt gatgaaccct gccttgacgc 420
 aacccatcgt tggaggtgcc atctttttaga ttacatatga gatgtactcg acaatggtgc 480
 cctcataccg acatgtgttt cctagaaata atcaatatat tgattgagat ttatctcg 538

<210> 5675
 <211> 133
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-112-Q1-K6-H9

<400> 5675
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 tgctgatcgt tgcccttgc tctctggcgc tcgctgagag cgccgcctcc agtacaagcg 120
 gcggctgtgg ctg 133

<210> 5676
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-A1

<400> 5676
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 tttttttata tttttttaat ataattatta atatattttt taaaaatatt aaaagtttgt 120
 ttttataaag gttataagtt taggtaattt tgatagtaaa attttatctt ttttagagtg 180
 aattttaaag gaggggattg ggggggaatt aaaatagtct ttgttaaaga aattttcggg 240
 aacaccactt aataatcttg gaggacatcc ttttttgga agctggggaa ataaaaaagg 300
 ggacctaaaa aaaagttttt gctaaagggt gttcggcctg tttgcagaag ggaaacctca 360
 ctggcaaggc gcattaagga aagggccaat tgggggtaaa aggagggtgt accattaaac 420

<210> 5677
 <211> 540

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-112-Q1-N6-A2
 <400> 5677

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 ccccagttgt gcggccacga actcattagg gttatgcagc aggatcacat ggacgcatag 180
 ctgaactgta tgggaactct cccgtcgctt ggtgaacagc taaaccgtga tgtcagtctg 240
 acggagacga aagaataact ggcgcctcgg gtggcagatc tgtgagagga tcatgcctac 300
 acgaggtcta agcttgtgac tgtacgtggg ttctcgaacg aaatgactgt gaaatcactg 360
 ttgcacacaa catacgagcc ctaggcatac attgtcattt ctgcagctgc tattgagtca 420
 actaagtcac attcattggg ccttgctaac tgttgcgat ccagaatgga aactggcgcc 480
 tgcagctgca ttaattaatt acgcatctct cggggatgag acacctgata ttgtgcactc 540

<210> 5678
 <211> 358
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-112-Q1-N6-A4
 <400> 5678

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 ggagggacaa aaatttggtg ccgtcaacta ccacaacatg tgactgctga ccttgggtgg 120
 tacgtgtaaa aaacattggg ggtatgccat taaacacaac tggctgagtg tgaactctgc 180
 tgcttatttg caacaaaaat taccattcac ccaggtaggt gttgactacc cccatgaatt 240
 tgttacattc aaccaagtag tggatttgca actctgctgc ttatttacag cactgacaa 300
 ctactaccat ccaagcacct aactgatgtg agccctgatg ccttcttgac gcagcaac 358

<210> 5679
 <211> 531
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-112-Q1-N6-A5

<400> 5679

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cgtgagttga ccatgattca atcagtaccg atggtcctgt tctactgacaa acaatgaggc 120
ccgaaggcca cgattacccc agttgtgcgc ccacgaaccc attaggttta tgcagcagga 180
gtcacatgga cgctaagcat gaactatatt ggaagtctcc cgccggttgg tgaacaacta 240
aaccgtgatt tcagtctcgc ggagacgaaa gaataactgg cgcttcgggt ggcagatctg 300
taagaggatc atgcctacac gaagtctaag cttgtggctg tacgtggttt cacaacgaaa 360
ttactgtgaa atcactgttg ctccccaaact taaagccctt agcataaatt gtaaattctg 420
cagctggtaa tgaatcaact aagtcacata tcaatgggtc ttgctaactg ttgcgtatcc 480
agaatggaga acggcgcctg cagctgcatt aattaattac gcctctcgcc g 531

<210> 5680

<211> 642

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-A8

<400> 5680

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aaacacacca tgtcgaagca gcactttcga cgtcctatca gcaacggatg ccaagatgtg 120
ggccctatctt gcgcttacat gccctttgag tgagcacaac agaggcgctc attattggac 180
aggttcactt gctgctaatt acattataac cacaggctct gccaccattt gctttaatgg 240
gtcttcgaac gtacagacca gcgagcctac acgctacaac tagtgcttgc agtgagcgcc 300
ttacaacaac cactcgccca attgcgacac caatacttgg cacattgaac cctactgacc 360
attgcaacgc aacagcaacg acaacaaact aggctgctgc catacactga accacctagc 420
cgaggagaac cctgtgacct acttgagca ccttgtgctt gcatagcaac cctattgcta 480
tggcgaacgt agctgcatac cagctacacc atcggttgca gacagagatg cgcagtgtc 540
agtcaactag gcatggtgaa ccctgcctgc tacctacaac tacttatcat gtagcccggt 600
cgcggtgggc aatgcaccta cgtacctaca acgacagatg ct 642

<210> 5681
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-B1

<400> 5681

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ctccacgtcc ggctgagcat agacgaaggc gccatgtacg agaggctgga cgtgcacctt 120
cacgcttgcc accaagcgga tgtggaggcc cagaggtcct tgctccggag caccacagca 180
ccatcagctt gggggccgtc gtggccgtgc gggccttcgg cagccgttc gtggcgatcg 240
cggacaggga caagttccgg ctgggcccggg tcagctccat ggccgaggac atggtcttgc 300
tgaaccggc ccacgccaag gtcattgtcga tctacgagga gatcgtccgg ccggtgctgt 360
cctcctacat cgac 374

<210> 5682
<211> 569
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-B10

<400> 5682

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cgtgagttga ccatgattca atcagtaccg atggctcctgt tcaactgaaa acaatgagcc 120
cgtatggcca caattacccc agttgtgctc ccacgaaccc attatgggta tgcagcagga 180
tccatggacg atagatgaac tatggggaac tctcccgcgg gtgggtgaac aactaaaccg 240
tgatttcagc ctcacggaga cgcaagaata actggcgccct cggctggcac atctgtaaga 300
ggatcttgcc tacacgaggc ctaagcttgt cgctgtacgt gggttcacaa cgaaatgact 360
gtgaaaacac tggtgctccc caacttaaac cccttggcat acattcccaa ttctgcagct 420
ggatttgaat caactaagtc acattcaatc ggccttgcta actgtccggc atccagaatg 480
gagactggcg cctgctgctg cattaattac ttacgcatct ctccgggata ggacacctga 540
tattgtgcac tctctataca ttctgctct 569

<210> 5683
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-B2

<400> 5683

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acatgcatac gcactagcct acaagctaca aattgcggtt gctgtgagcg cctcacaaca 120
accaattgca caatcggaac aacaattggt ggccatgta accctacaga ccattggatc 180
gcaacaacta catcaacaga gagctggcat aactggcca cctaaccgtg gtgaaccgtg 240
tcacctacta ttgacaacag ctagtggcat acaacaaact tgctctggcg aacggagctg 300
cataccatcg acaacaacag ttagcacagg ctatgccagt gctcactgaa ctagccatgg 360
tgaaccatga cgtctaccta caactacttt tatgtagccc gctcgcgctg ggcaatgcac 420
ctacctacct acaac 435

<210> 5684
<211> 653
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-B5

<400> 5684

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ctttccactc tagtttactt ttattgtgtc ttttgtttct cccgggataa gcacgcaccc 120
tatgtttcga ctagttattg ggaacagcgt ccgacatcag gccaccgtcc aattgcaaca 180
acaattcttg gcacatataa caggacacac catcgcagcg cagctgcctc aacaggctcct 240
accagctctg agccacctag ccgtggtgaa ccctgtcgtc tacttgcaac aacggctgct 300
tgcattgcaac ccacttgctc tagcaaactg agatgcaaac cagcaacaac aacaactgca 360
acagttttctg ccagcgctta gtcaactagc catggtgaac cctgccgact acctacaaca 420
gcaacaactg ctttcatcta gcccgtcgc tgtggccaat gcacctacat acctgcaaca 480
tgaattgttg caacacattg taccagctct aactcaaata gctgtggcaa accctgttgc 540
ctacttgcaa cagctgcttc cattcaacca actaactatg tcaaactctg ttgcgtacct 600

acaacagcga caacagatac ttaatccatt ggcagtggct aaccattgg tcg 653

<210> 5685
<211> 584
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-B9

<400> 5685

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cttgcgcaga acattgtggg tctcattgct aatgcgatgg gcggtctggt tgaggatgct 120
gatggtatga acagggagtg gtgcatcaag agccacgagc tctctctcca gctaaacagt 180
gtcgttcttc cacttggtc gctaaagggtt gggctgtcgc ggcacagatc actgctattc 240
aaggctacttg ctgaccgagt taacctacca tgtaagcttc tgaaaggaat atgttatacc 300
gggacagatg aaggagctgt taacttggtc aaagttgatt ttgacagcat ggaatatatt 360
attgatttga tgggagctcc aggcacctta atcccttcag acatttctgg gattcagttt 420
caggactcca acaatagcca attgagcagt gatgccattg aagagagtgc cgcagaattg 480
tgcttagccc ttgagcagat taatggtgga tatgagaaca aaaatactat tggaggatgc 540
tcacttggtc acagatctat tttagcgctc acgaggtcac acct 584

<210> 5686
<211> 518
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-C11

<400> 5686

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gaccatgatt taatctttac cgatggtctt gttcactgac aatcaatgag cccgaaggcc 120
atgattaccc cagttgtgcg gacacgaact cattaggggtt atgcagcagg agtccatgga 180
cgatagatga attatttga actctcccg cggttcgtga acaactaaac cgttatgtca 240
gtctcacgga gacgaaagaa taactggcgc ttcggctggc acatctgtaa gaggatcttg 300
cttacacgag gtctaagctt gtgactgtac gtgttttctc aacgaaatga ctgtgaaatc 360

actgttgctc acaaccttaa accccttagc atacattgta atttctgcag ttggtattgt 420
 gtcaaataag tcagattagt atcgcccttg ctaactgttg cgtatccaga atggaaaatt 480
 gcgcctgcag ctgcattaat tacttacgca tctctccg 518

<210> 5687

<211> 540

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-C2

<400> 5687

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 gcgcgcgctc tactgtcagc tagccattct ggtgagcgga tactgcggag ctggggcggg 180
 ggcactggat gggctgtgga agatactaag ggcacgatca ctaacctatt gggggagtac 240
 aacactggtg gtgacctaag agaacctgca gagcatccgt gatcttggga tgcccttctt 300
 caaccatgag gtggttaaga aggcactggt catggctatg gagaagcaga atgacaccag 360
 catcttggtc ctgctgcagg agtgaatgcg gcgaggggct cataaccatc aaccagatga 420
 ccaaaggctt tgcccgtgtc aaggaaggcc ttgatgatct gatcctcgac atcccaaattg 480
 cccaggacaa gttcggagag tatgccgagc tggcaacaga gcgcggctgg atgctgccga 540

<210> 5688

<211> 651

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-C5

<400> 5688

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 tccttggaat ttctgcaagt gctgctacgg tgaccatttt aacgcaatgc tcacaagact 180
 cctatagctg ccgttcttcc cccatacctc tcaccagcgg tgcccttcggg ttgtgaaaac 240
 ccaattcttg aaccctacag gatccaacag gcaatctcag actggcatac ttacctttat 300

cacccttggt cctccaacaa tcatcagccc tattacagca gttacctttg gtgcatttat 360
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 ttccattcaa ccaactggca gcattgaact ctcttgctta tttacagcag caacaactac 600
 taccattcag ccagctagct ggtgtgagcc ctgctacctt cttgacacaa c 651

<210> 5689
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-C7

<400> 5689

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 gcaaaccttg ctgactactc tcagcaacag cagtttcttc cattcaacca actagctgca 180
 ttgaactctg cttcttattt gcaacaacaa caactaccat tcagccagct acctgctgcc 240
 tacccccagc aatttcttgc attcaaccaa ctggcagcat tgaactctcc tgcttattta 300
 cagcagcaac aactactacc attcagccag ctagctggtg tgagccctgc tacctttttg 360
 aacaaccac 369

<210> 5690
 <211> 635
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-C8

<400> 5690

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 atagtgtacc aacaatggca gccaaaatat tttgcttctt tatgctcctt ggtctttctg 120
 caagtgttgc taccgcaacc attatccac atgtcacaac gctcctatag cttcccttct 180
 tccccatac ctctcaccag cgggtgtcttc aatgtgtgaa accccaattg ttcaacccta 240

caggatccaa caggcaatcg caacagggcat cttaccatta tcacccttgt tctccaaca 300
 accgtcagcc ctattacagc agttaccttt ggtccatttg gtggcacaaa acatcagggc 360
 acaacaacta caacaacttg tgctagcaaa ccttgctgca tactctcagc aacatcagtt 420
 tcttccattc aaccaactgg ctgcattgaa ctctgctgct tatttgcaac aacaattacc 480
 attcagccag ctagttgctg cctacccccca gcaatttctt ccattcaacc aactagcagc 540
 attgaactct gctgcttatt tacagcagca acaactacta ccattcagcc agctagctga 600
 tgtgagccct gctgccttct tgacacaaca acaga 635

<210> 5691

<211> 642

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-D10

<400> 5691

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 aatgttggaa tgaatgcaca agtccacaga aatggaatcg atcttgatca gtttgaggac 180
 taattcataa cgttgcgagc ttggaggctt gatggccagc gcacagagct gtgtgtaaaa 240
 gcacatgcat tgaaggggtca atcatgtgct caccacaggc tagtggtggg tgatggcttt 300
 gtgactatga caaaggggtga aagtattaga aatttctttg agcatgctga agaggccgag 360
 gaagaggatg aagacgatgc catggacagg gatggaaatg attttgatgg tgatgatgcc 420
 cattcacaga agcatgccaa gagccctgaa ctggcaagag aatttctttg ggatgctgct 480
 gctgtgatat tcaaagaaca gattgagaag gccttcaggg aaggtacagc acagcaaat 540
 gcacgtagtg tttttgtgac ccttgcttta aaacttttgg aacagcgagt tcatgtagca 600
 tgcaaagaaa taattacgtt ggaaaaacag taaaaacttc tt 642

<210> 5692

<211> 582

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-D3

<400> 5692

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aaaagccata atgtaccaac agtggcaaga caaaatacaa aagatttctt atgctgattg 120
gaatttatga acgagctgat acacgacacc aatcaaccac gagtgtcac aagactaact 180
atagctggct ttgtaaacct agacctctga cacagcagcg attgtagcat gtgaaaaacg 240
aagccttcaa ccctaccaga tccaacaggc aaccgcaaca agcgttgtag ctttaagaac 300
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cttagcaaca tgaatggctt ccattgaacc aactgactgc attgaactat gctgctcatt 480
tgcaacaaca aaaaaaactg cagtcagcta agatgatgcc taccggcagc aatattacaa 540
cattcaacca actgggagcc ttgaactctg gtgcttactt ac 582

<210> 5693

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-D4

<400> 5693

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gctgggggttg tcaaacctat tacagtgaat gcctttggtg catttattgg cacaaagctc 120
caggcacagc aactacgacc tcttgtgata gcaacacctt gctgtctact ctcaaagcag 180
caggttctta cattctacct acttgcttgg ttgaactctg ctttttattt gcaacaacaa 240
caactaccat tcagccagct atttgctggc taccaacagc tatttggtgc attcaaacaa 300
ctgacagcat tgaactcttc tgcttattta cagcaacaac agctactacc attcagccag 360
ctagctgggtg tgagccctgc taccttcttg accaaccaca gttgttgccg ctctaccagc 420
acgctgcgcc taacgctggc accctcttac aactgc 456

<210> 5694

<211> 598

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-D5

<400> 5694

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aagcttacca tgtaataaac tgtatatcac ttgtgcttac accagacatg gttgccctta 240
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<210> 5695

<211> 561

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 5695

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561

<210> 5696

<211> 567

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-D9

<400> 5696

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ggaaaatctg acatgatggc cacaacatg caatatctgg aagtagattg cgaggagagg 180

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cgaggcctaa tgactgaggt aatgctcttg tgcatagaga acaggaatc cctattatag 420

ccaataagga cattggctgt agcaattcgc attgcactat actgcaaagg accagggcc 480

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<210> 5697

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-E1

<400> 5697

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cgttcgcaat atattgattg agatttattc tcgtttttat t 101

<210> 5698

<211> 503

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-E10

<400> 5698

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gttcgctctc ctaactcttt gtgcaagcgc cactagtgcg acccatattc catggcacta 180
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gccacaatgg cactgcgacg ccgcttcgca gattatgctg catcatgcgt taccattcat 480
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<210> 5699

<211> 601

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-E12

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tccttcaaag cacgtacctt taatgaacgg agttgttgga atgggaaaac ggagccattc 240
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cagacataca actacacatt cagccagtta tagtgctgac taccgccagc tagcacatgc 540
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<210> 5700

<211> 607
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-112-Q1-N6-E2

<400> 5700

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ggagatgatg cggaacacag acagagccat gagcaacatt gagtcttctc cagaaggatt 180
caacatgctc cgtcgcattgt atgaaactgt ccaagagcct tttctgaatg caacaacaat 240
gggtagcgag ggtgatcgaa attcgaatcc attttctgct cttctaggaa atcaggggtc 300
taaccaagca agagactcag ctgcaaattg aacaactaga gtttcagacc ccacatcagg 360
gtctccagct ccaaatacta atccacttcc gaatccttgg ggctcaaagc ctgggtctgc 420
ccaaggagca gcaaggctct ctctgctag caatgttagg agtactacag caagtggcct 480
aggaggggtt gggtcagcag atttgggaag tacacatggt gccagtgggt gtgggtctga 540
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tatgtct 607

<210> 5701
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-E3

<400> 5701

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tccgctgggt gccggcgctc tagccggatt cgacttaacc ttgtgctacc taccatcagg 180
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ttcgtgaaga tccttcgcga cgagggtccg tccgagctgt accgagggct gacaccagc 300
ctgatcgggc tgggtgccga cgcggcctgt aacttgtacg tctacgagac gctgcatgag 360
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tgctcatcgg ttcggcggg

439

<210> 5702

<211> 635

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-E4

<400> 5702

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tateccctcct ctagctactt gctctttact acatgtgtcg ctaacgcaac aattttccct 180
caatgctcac aagctcctgt agcttccctt cttcccccat acctctccat gcaattatag 240
cttcaatgtg tgcaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 300
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caactgtcta cactgaaccc tgctgcttat ttgcagcaac aactattacc attagccag 540
ctagctactg cctactctca gcaacaacaa cttcttccat ttaaccaatt ggccgcactg 600
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<210> 5703

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-E5

<400> 5703

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tgcttcttat ttgcaacaac aacaactacc attcagccag ctacctgctg octaccccca 180
gcaatttctt ccattcaacc aactagcagc attgaactct cctgcttatt tacagcagca 240
acaactacta ccattcagcc agctagctgg tgtgagccct gctaccttct tgacacaacc 300

acagttgttg ccgttctacc agcacgttgc gcctaacgct ggcaccctct tacaactgca 360
acaattg 367

<210> 5704
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-E6

<400> 5704

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agtgatcttt caataataat gggtaagtcc gcctgctgtt tgacggcttc ctctattatt 120
agaactatca tcttatagga aaaaaaaca caagggccga ccctctaata gatccacc 178

<210> 5705
<211> 531
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-E7

<400> 5705

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gcccgtactg gatcttgcac atattaccaa aatatttatg attgtaaaaa gcacagtgag 180
gcttggtatc atcagttgga cttaaaactg catactgtga aaggaataca caaattgctc 240
atactttgat ataagagcca gagcagaaca gaaaaaatag acgtccgttg attacaacaa 300
catatatttt agcagtcctta cttgctgata acacgatact gtggcatact atattctgaa 360
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aacaatatca tgggtctagc tgccacaaat gacaggcggg agcttctacc aatatatgca 480
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<210> 5706
<211> 603
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-E9

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taccattcag ccagctagct ggtgtgagcc ctgctacctt cttgatacaa ccacagttgt 420
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tgccattcaa ccaacttgc ttgacaaacc cagcagcggt ctaccaaaa cccatcattg 540
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tgt 603

<210> 5707

<211> 642

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-F1

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gtgataatct ggactacatc tacactgagc ttactagctg cgctgggtga tgtgcataaa 180
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tcttagatcc aaagataagg attgggggtc ctcagctgga tggttggatg attgatattg 600
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<210> 5708

<211> 656

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-F10

<400> 5708

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<210> 5709

<211> 528

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-F11

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ctggacacga gcgtcagcta gatggcgctg gcgtcactgg aagggcaacc ggtacaacac 180
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accttggcag cgccaggcgt tgctggtgca gacgtagaac aacaacgcgc ggcccgcccc 480
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<210> 5710
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-F2

<400> 5710

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atcacttttg attttttcaa catcacagtt tgaccgaagg cgtcttttagt gggagaaaac 240
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<210> 5711
<211> 637
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-F3

<400> 5711

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<210> 5712

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-F4

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 catcttgagc ttgccgtga cgccatcaac atcctgtacg atccagctct gatgcagcaa 420
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<210> 5713

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-F5

<400> 5713

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<210> 5714
 <211> 491
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-F6

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 <211> 633
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<210> 5716

<211> 479

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-G1

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gagcttgctg gatacagatt aactgttcgc tcttgggggg gtgatcaaaa gcatgggtcaa 180
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ataaaaactga tgagtaccta ccgactggtc atgttattgc attgaacgga ataggccaga 300
accagcataa cactcttcaa catgcctaag gcgggcacac atcgtaagca aaaacaatat 360
cctatgtgca caatcgcacg gaaggagcc tactgagtat gctatcatat gcacatgtcc 420
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<210> 5717

<211> 573

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-G11

<400> 5717

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cgtagctgca taccagctgc tgctcagttt gttcagttta tgccattgct cattcaacta 120
gccatgggtg aaccctgctc gtctacctac aactactttc atctagcccg ctgcggtg 180
gcaatggagg ggggggccta caacaacagt tgctgcaaca aattgtacca gctctgactc 240
agctagctgt ggcaaaccct gctgggcta taaaaacagt ggcttgcat caaaccaact 300
ggctgtgtca aactctgctg cgtacctaca acagcgacaa cagttactta atccattggc 360
agtggctaac ccattggctg ctaccttct gcagcagcaa caacaattgc tgccatacaa 420
ccagctctct ttgatgaacc ctgccttgca gcaacccatc gttggagggtg ccattcttta 480
gattacatat gagtagtact cgacaatggg gccctcatc cgacatgtgt ttcctagaaa 540
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<210> 5718

<211> 574

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-G12

<400> 5718

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aagagcaa at acaaagaaga caccaccaa gaggtggcag cggctaaacg ctgctttgtt 120
tgccaaaacc tgttaccaga atggtatcaa ttgtgggaaa acccaaaggt tgacccctac 180
aggatccaac aggctaataa caacgtggaa ctaactgacc ttgatcaca actaaggtag 240
gtacaacatt acaaccagcc tctattgaca tgcaatggac acttatgggtg gcatctgatt 300
ggaaacaaaa catgaaggca caagatctac aacaacttga ggtaacaaac ctttgtgggt 360
acgcagaacg acagtagctg aatggattca accaactagg tgaataaaac tctgattcat 420
agcagctaca acgacaacta ccattaaacc aggtacgctg ctgactagcc gcaggaattg 480
cttgcataca accaactggc agcagtgaac tgtgctgctg atccacagaa tgcaccactg 540
ctaccattca aacagctatc tggagtgagc cctg 574

<210> 5719

<211> 598

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-G2

<400> 5719

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cctataggct ttatcatgct ctggaaatgt agctcatact ttttgggtgc tcgcatgctt 120
caacacaaaa cacttcctat tttgggtgca gccattggta caaaccatag gggcccccca 180
cctgcatcag ctggtgctac cagggatcaa ccattggcta tggcgaacct caatggctac 240
tcttagcagc aacaattact tgcattcaac caactgccta cactgaacct tgatgggtat 300
ttgcagcagc tgctattacc attaagccag ctagctactg cctactctca aaaacaaca 360
cttctttcat ttaaccaatt ggccgcactg aaccccgctg cttatttgca gaagcaaata 420
ctactgccat ttagcgagct agctgcagca agtcgtgctt cttcttgac acagcaacag 480
atgctgcctt tctacaagca gtttgcggt aaccccgga cctcttaca actacaacaa 540
ttggtgcctt ttgtccaact tgctttgaca aacgcagcag gctactacca acaacaca 598

<210> 5720

<211> 660

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-112-Q1-N6-G7

<400> 5720

tggtcacgcc tgcaggaacc gggcccgcaa tacacggaca ccacctagca acatacatag 60
tgaatacact agcaacatct tatcaccaat ggcagtcaag atttttgcca ttcttgcctt 120
ccttgccttt tcagcaagcg ttgctaccgc gactattatt ccacaatgct cacaacaata 180
cctctctccg gggacaggcg cgagatttga atacccaact atacaatcct acaggctaca 240
agaggccatc gcagcaagca tcttacgggc gttagcattg accgtccaac aaccatatgc 300
cctattgcaa caaccatcct taatgaatct atatctccaa agaatcgag cacaacaact 360
acaacaacag ttgcttccaa caatcaatca agtagttgca gcgaaccttg ctgcttacct 420
ccagcaacaa caatttcttc cattcaatca actagctggg gtgaaccttg ctgcttacct 480
gcaggcacia cagctactac cattcaacca acttgtcagg agccctgctg ccttcttact 540
gcagcaacag ttgcttccat tccatctaca agttgtggca aacattgctg ctttcttgca 600

acaacaacaa caattgctgc cattttaccc acaggttgtg gngaaacatt aacgccttct 660

<210> 5721

<211> 507

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-G8

<400> 5721

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aatcattacc gatggctcctg ttcactgacc acaatgagcc cgtaagggca caattgcccc 120
agttgtgggg ccacgaactc attaggttta tgcagcagca tccatggacg ctggcatgaa 180
ctatggggaa ctctcgctc gggttcgtcaa cagctaaaca gtgatgtcag tctcacggag 240
acgcaagaat aactggcgct tcggctggca catctgtgag aggatcatgc ctacacgagg 300
tctaaacttg tgactgtacg tggtttctcg agcgaaatga ctgtgaaatc acagttgcac 360
acaacataaa agccctaggc atacattgtc ctgtctgcag ctccaatgt gtgaaataag 420
tcacatcaaa tgggtcttgc taactgttgc gtatccagaa tggaacagg cgctgcagc 480
tgcattaatt aattacgcat ctctccg 507

<210> 5722

<211> 622

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-G9

<400> 5722

gcctgcgatg aaccgggccc gctaatacac ggtcgacctc agcgttcgtc attatcaaca 60
acagagcaca atggcgacca agtaattttc cctccttatg ctcccttgctc tttctgcatg 120
tgttgctaac gcgacaattt tccctcaatg ctcaaaagct cctatagctt cccttcttcc 180
cccatacgcg gggatgaatg atagcttcag tatgtgaaaa ccagctctt cagccctata 240
ggctccaaca agcaatcgca gcaagcaaca tacctttatc acccttggtg tttcaacaat 300
cgccagccct atctttggtg cagtcattgg taaaaccat cagggcacag cagctgcagc 360
aactcgtgct acctgtgatc aaccaagtag ctctggcaaa cctttctccc tactctcagc 420

aacaacaatt tottccattc aaccaactgt ctacactgaa cctgctgct tatttgcagc 480
aacaactatt accattcagc cagctagcta ctgcctactc tcagcaacaa caacttcttc 540
catttaacca attggccgca ctgaaccccg ctgcttattt gcagcagcaa atactactac 600
catttagcca gctagctgga gc 622

<210> 5723
<211> 481
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-H1

<400> 5723

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accgcatcga ttggcacaac tacatttagt gacaacatct acagcaacta gcgctaacct 120
accttgggtgg actctatgag catcagaagc tactaacgtt caacctaatt gctgggtagc 180
accatgcttc ttataagaaa catcaacaac gaccattcac tcatataaca gctgactacg 240
gccacccctt atgttgcatt gaaccaacta acgctattga actctcctga ttagttacag 300
gaatgcaact actaccatta atgcagatag ggtgccgtga gccctggcac cttgctgata 360
caaccacaac agctgccgtt gtatcaagac gctgcgccta aactcgaac tctcttacia 420
ctgggacaat tgctgtgatt caaccaacta gcttggacaa acacagctgc catctacaa 480
c 481

<210> 5724
<211> 513
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-H12

<400> 5724

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tgtacaggct aaggacatta acctaactga aagggatgtc ggaggtcagg acaagacctg 120
cccgtagcgg aggcactact ttcataacac acaactactt atttttgatg tagacagcta 180
acgactgggt aacgtgtaaa aaaaggctac gtgagagctc cacacgtatg cttaatgagg 240

atcacctgcg aaacgctgta ctacttgtgt tagaaaacaa acaaaagcct gccaatgctc 300
tgaatgctgc ctaaactg caagctaggt ctctttatct gcaacagccg ctctggtaca 360
tacagcgcac caaggctgca tgtggttgaa ggatgtatga agggcttgac aggctttgca 420
ggaacatcta caccaagagt tgaagggttt ccagatgatt cctattcagc agacggctga 480
acaaattatg ggcgctaaca acacgacatc ctg 513

<210> 5725
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-H2

<400> 5725
cgacctatgt cgtttgtttt ttttttttta ttttttttag atttttttga tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt ttttttttat tttttttttt 120
ttttttttta tttttttttt tttttttttt ttttttgtgt gggggggggg tttttttttt 180
ttttttaatt tttttgtggg tttttttttt tattgattgg gatttg 226

<210> 5726
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-H3

<400> 5726
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gcgacctgaa acaacgcccg tgtggtttta cgtgtcgcaa ggataataat agcttttgat 120
gttttatgct tataaaaaaa aacacatggg ccgaccctgt aatagatcca accttcctgc 180
gggtgcatca gatttcctta ttctagtata gttaaagtta attcaattca ttggcactag 240
gttttacatc ggtgaaactg ggaaaacctt acagttaccc acatatatca ccttgcagca 300
taaaccgctt tggccagggt gcctaataka gaagatgact cacattattg gccttgccat 360
cactgcccga tctgcaatgg gaatacacgc gccctgttgc attacataaa tcgccaacgc 420
tctgggagat acgcgcagcg 440

<210> 5727
 <211> 548
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-112-Q1-N6-H4

<400> 5727

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 agagggaaca ggtgacggcg gcgcgctacc tagaccggga tacggaggat agatccctgc 120
 tacttcccgg cgcgacggcg ccagcaaccg gactgcaggc tgcttgaaga gctcatcatt 180
 taatatgaaa ggaaggcaag ttaatgcaat acctgaagct ggatcgggtc gggttcaaag 240
 ctaggtcata gagtcatagc cgggatttgt ttcttaaact gggctaaagc cctgaagcgc 300
 atttcaccgg tactccagct gagcctgtat actgcttcag acccaacata aactggtgca 360
 ccctgatcta ttaggacagg gtgcaccaga ttatcggggc catgcagagc tctacagcta 420
 cagatgtgga caacgggaac gggatcctgt gcattgacca cggataaag ctcaaccag 480
 ggacgaagct atataatctt gacgatacga agggcccaaca actctgtatg taactgaaaa 540
 ccccatgc 548

<210> 5728
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-112-Q1-N6-H5

<400> 5728

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 gtattttaaa cttggctcga aaaggctgac attactatct ctatagggtgc gcacagattt 120
 gatgggcaca ttaccctta taccctca aagctctaca agccgctatt gcttgaagga 180
 caggttgatc actggggact ataagaggca gtttttattg cactactcat gacatacttt 240
 ttcaaacctg ttcttgattg atggacaaca tggaggaagc gaattgctta aagaggcttc 300
 gcatgagaac ttatgtgagc gtttggttac catgggttct cagatcaatg acacactaac 360

ttt

363

<210> 5729
<211> 538
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-H8

<400> 5729

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cggcagcggg gagcttgac catgcatgtt aatgcattta cctgatggta gcttcttcac 120
atgacaaaca atgggcccgt gagggcaca ctacccagcgt tgtgccccca cgaaccatt 180
gtggttatgc agcaggatcc atggacgcta aatgaactat ttggaactct cccgccggtt 240
cgtcaacaac tacaccgttt tttcagtctc ggcgagacga aagaataact tgcgcctctg 300
gtggcacatc tctgcgagga tcatgactac acgacgtcta aactcatcac tgtacgtggt 360
ttctcgacgt aaattactat caaaacacta gtgttcacca cattctagcc cttagcatac 420
atccaacttt ctgcagctcc tgttgtgtca aataagtccc atcagttggg tcttgctaac 480
tgctcggtat ccagaatggc aaattgtacc tgcagctgca tttattaatt acacatct 538

<210> 5730
<211> 599
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-112-Q1-N6-H9

<400> 5730

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aagactccag attggcgaac tatgaaccct gaacgtgcta atggttgacc tagctctcct 120
ggcacattgt gccagcgccg actggaggac aagccgcggc tgaggggtgcc aaacaccacc 180
aactaatgtg ccgggtacgt agtatatgcc tccttcacat tatctgtcca cgaaatagca 240
gcctcagcca tggacacacc cactgaacc accgcaagga aaccgcgcc agctgctgca 300
gatcctgggg cgacagcagc gtcagcagcc cggctctggg ccagcgcgtc aaggctctga 360
ggcaccactg cagcccgggg gggacgcagc actgctcgac acaacgcoat gcgctgcagc 420

accagtgtgtg ccaccacatc atgcatgagg agccgctgca cctgtaccag gagacacacg 480
gactgggtgct agcctccttg ctgcagcagc aggctgaagt ggagccttag gaactgatcg 540
cagtccacca agaacaggat gtcaccgcta tctgcggcct ggaactccaa cagccagga 599

<210> 5731
<211> 358
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-001-Q1-K2-A3

<400> 5731

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ctaccaagat attggccctc cttgcgcttc ttgcgctttt tgcgagcgca acaaatgcgt 120
tcattattcc acaatgctca cttgctccaa gttccattat tacacagttc ctncaccag 180
ttacttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcaattg 240
cggcgagcgt cttacaacaa ccaatttgcc agttgcaaca acaatccttg gcacatctaa 300
caatacaaac catcgcaacg caacagcaac aacaattnct accagcactg agccacct 358

<210> 5732
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-001-Q1-K2-F7

<400> 5732

ccggctagac gtacgcgtcc ggctccttact tcagtgtagt ataagggttaa aactatgtat 60
gaccgaatta ggtgggatcc ttgactcaat gctgctgtat ccaaacgaac gtcaccatga 120
caggcctata cagaac 136

<210> 5733
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-002-Q1-K2-D9

<400> 5733

agcattcaaa aacacaccaa gcgaagcgca ctagcaacga cctaacacca atggctacca 60
 agatattagc cctccttgcg cttcttgccc ttttagtgag cgcaacaaat gcgttcatta 120
 ttccacagtg ctcacttgct cctagtgcca ttattccaca gttcctccca ccagttactt 180
 caatgggctt cgaacatcca gccgtgcaag cctacaagct acaactagcg cttgcgggca 240
 ggcgcttaca aca 253

<210> 5734
 <211> 228
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-A12

<400> 5734

atcaagagta cccagatgta tccgtcggtg ctggtctaaa cactaatagg gtgtttggtc 60
 tgaggaatgg gctagtccat tctcttctcg ctcttttttt tatttggttt attaaataga 120
 atgagttgat ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacaacaaaa aaaaaacaat 180
 acaaaaaaca acaaacaaaa aaaaaaaaaac ataaaaccat aataaaaa 228

<210> 5735
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-003-Q1-K1-G6

<400> 5735

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 tgccctggct gccaaactgt cctctgcaa cccacaggag gaaaggcaag gctcactgag 120
 ggctgctctt tccgcaggaa gggagactag agcggatgtg gtcttcaagt ttgctctat 180
 gccagatact agcgtcatga actgccttta gctaagattt tccataagtt gttctcgagc 240
 agctatgtgt tgcattgttg ctacttccaa acttatatct gggtctgggt ggattgtgat 300
 gaactaatgg ctctattgaa tcatataatg atgttgccga tatttggtga aaaaaacaag 360
 tattaacaac aaag 374

<210> 5736
 <211> 246
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-004-Q1-K1-G8

 <400> 5736

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 ttgttgacgc gggggatcac acgcacactt caatgccgct agtatgccgc atggtactac 120
 ctgatggcgt ttagagcacg cagtacggct ttggatacac tcctgtacat ccgctgccag 180
 cgctgccgcg gccagctcct ggccggaccta gccgcgggat tcggcgccgc cctgcagcct 240
 acaggc 246

<210> 5737
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-007-Q1-K1-F3

 <400> 5737

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 gaggagcata atgtgatgga atttctaatt cttgctggcg atcacctgta ccgatggac 120
 tatgaaaagt tcattcaggc acacagagaa acaaatgctg atattaccgt tgctgcccta 180
 ccgatggatg agaaacgtgc aactgcattt ggcctcatga aaattgatga agaagggagg 240
 atcattgagt ttgctgagaa accgaaagga gagcagttga aagcaatgat ggttgacacc 300
 accatacttg gccttgatga 320

<210> 5738
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-008-Q1-K1-E9

 <400> 5738

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 aaaccatcgc cggcgatgag tttcaaccag tctactgtca aggggcaggc caggagggag 120

aggcctaggg ctgcacctca tggcctgacg cagcagagga ggcaggaaat aaaggaagcc 180
 tttgatctgt ttgatacaga taactctgga accattgatg caaaagagct caatgttgcc 240
 atgagagcct tgggatttga gatgactgaa gagcaaatta ggcaaatgat tgctgatgtt 300
 gacaaagatg gcagtggagc gatcgactac gaggagtgtg agcacatgat gactgccaaa 360
 atcggagaga gggatagtaa agaggagctt tcaaaagcat tccgcattat tgatcaagat 420
 g 421

<210> 5739
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-008-Q1-K1-F5

<400> 5739

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 gacgatgaat ctgcagatgg cccgtctgcc gacgacgact cgtccgatga tgccgcggac 120
 aaggctgccg ccgcgccgctc gtacctgtcc gctcgatggg tgaccgccgc agtgacgacc 180
 gccgtcgcgc tggcgtggc ggcgtaagggt gtgcgctcat gtgctatgtt tttttataa 240
 cttattggac cccctatctt cttttctttt gtccaagtcg tgcccttcc ttgttggtga 300
 aaaaaataag aagggtatt tttgtttttt taaaaaaaaa aaaaaaata aaaaaaaaaa 360
 aaaaaataaa aaaaaaaaaa aaaaaaata 390

<210> 5740
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-008-Q1-K1-G2

<400> 5740

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 ctaagaagag gttgaatttt aatgtggatg ttataaatct gaggatgccg gatcgtgcaa 120
 gaccaaagg acggacaata aaaaatatag aagataggat tatgaaacta ggtgccaaaa 180
 gaaaaaaaga agaataggag atgccaattg tgtggaatag cagatggaca taacagcaga 240

acgtgtctgt ctgtggaaga gaacagggca agactagcaa aactggctaa tcgaaagaga 300
 ggacgaccgg ccggatcaag actaaacaat aaaacaactg ctccacagtg gaatgaaaca 360
 tcgactgcta aaaaacatcg tattgatgaa gaagtagaaa at 402

<210> 5741

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-009-Q1-K1-A6

<400> 5741

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 attgcttatg agttatactt caataatgaa gtcttttgga tgatgtctgt ggcttcccag 120
 aaataagaaa gtacatttct aaaaataccg actacgatct atatgccagc taacgcctat 180
 ctgaacgacg aaacac 196

<210> 5742

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-009-Q1-K1-C11

<400> 5742

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 agcaacatac ctttgtcacc cttgtttcaa caatcgccag ccctatcttt ggtgcagtca 120
 ttggtacaaa ccatcaaggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa 180
 gtagctctgg caaacctttc tccctactat cagcaacaac aatttcttcc attcaaccaa 240
 ctatctacac tgaaccctgc tgcttatttg cagcaacaac tattaccatt cagccagcta 300
 gctactgect actctcatca acaacaactt cttccattta accaattggc cgactgaac 360
 ctgcgtgctt atttgcagca gcaaatacta ctaccattt 399

<210> 5743

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-009-Q1-K1-E12

<400> 5743

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aagatattat ccctgcttgc ggttcttgcg ctttttgcg gcgcaacaaa tgcgttcatt 120
attccacaat gctcacttgc tccaagttcc attattacac agttcctccc accagttact 180
tcaatgggct tcgaacaccc agctgtgcaa gcctataggc tacaacaagc aattgcggcg 240
agcgtcttac aacaaccaat ttcccagttg caacaacaat ccttggcaca tctaacaata 300
caaaccatcg caacgcaaca gcaacaacaa ttcctaccag cac 343

<210> 5744

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-009-Q1-K1-F8

<400> 5744

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agatatgagc cgtccttgcg cttcttgccc ttttagtgag cgcaacaaat gcgttcatta 120
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caatgggctt cgaacatcca gccgtgcaag cctacaggct acaactagcg cttgcggcga 240
g'gcgcttaca acaaccaatt gcccaattgc aacaacaatc cttggcacat ctaaccctac 300
aaaccattgc aacgcaacaa caacaacaac agtttctgcc atcactgagc cacctagccg 360
tggtgaaccc tgtcacctac ttgcaacagc agctgcttgc attcaaccca cttgctctgg 420
cgaacgtagc tgcataccag caacaac 447

<210> 5745

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-009-Q1-K1-H10

<400> 5745

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ttttgggttcc ttatgctcct tgggtctttct gcaagtgtctg ctaccgcaac cattttccca 120
 caatgctcac aagctcctat agcttccttt cttcccccat acctctcacc agcggtgtct 180
 tcagtatgtg aaaacccaat tcttcaaccc tacaggatcc aacaggcaat cgcagcaggc 240
 atcttacctt taccacctt gttcctccaa caaccgtcag ccctattaca gcagttacct 300
 ttggtgcatt tgttggcaca aaacatcaag gcacaacaac tacaacaact tgtgctagga 360
 aaccttgctg cctactctca gcaacagcag tttcttccat tcaaccaact ggctgcattg 420
 aactct 426

<210> 5746

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-010-Q1-K1-D10

<400> 5746

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 tctcctgctt atttacagca gcaacaacta ctaccattca gccagctagc tgggtgtgagc 180
 cctgetacct tcttgacaca accacaattg ttgccgttct accagcacgc tgcgcctaac 240
 gctggcaccc tcttacaact gcaacaattg ctgccattca accaacttgc tttgacaaac 300
 ccaacagcat tctaccaaca acccatcatt ggtggtgccc tcttttagat ttcttatgag 360
 ttatagttca ataataaagt tttttgtctg 390

<210> 5747

<211> 62

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-010-Q1-K1-D9

<400> 5747

cttgatatct atattcatat gatataaaat aatatccctt tctacatttg cacagaggca 60
 ct 62

<210> 5748
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-011-Q1-K1-B3

<400> 5748

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cagatgatga tgcagcttga gcgtgccgct gccgccagca gcagcctgta cgagccagct 120
ctgatgcagc agcagcagca gctgctggca gcccagggtc tcaaccccat ggccatgatg 180
atggcgcgaga acatgccggc catgggtgga ctctaccagt accagctgcc cagctaccgc 240
accaaccctt gtggcgtctc cgctgccatt cgcgcctact actgattcat gatatttggg 300
aaatctcttc tatccatctc tctctatcta tatatgtaat aatgcagtca gacgacacac 360
attatcatgt gtggtatgac caataatata tgcattgtca taataaagtt ctggttctaa 420
tgaaaaa 427

<210> 5749
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-012-Q1-K1-D6

<400> 5749

tcagcaacta caaccacaac acttatatta acatcaacaa caacagcaac aacggcagga 60
ttaatgtata ggccaacaac tacatcacca actatcaca ggccatgttc atcaacacga 120
acagagccat gagcaccacc aatgtcagat ccattatcaa caacattaac atcaatttac 180
agtgtcfaat gaccatgcat tcaacatact acaatatact caacaatatg atcaatacta 240
gtaataatca caacagcaac aatgacattg acagtagcac catcatatct acaatgtcag 300
ctattactac tat 313

<210> 5750
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-013-Q1-K1-B5

<400> 5750

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gtcaaggtcg gtgactgagg acagctctcc tagatctctc tgatctggtc tgttcggccg 120
ccctccctcc gtcacgtcg actccccctg cgtccgttcc tttggatctg aataagacgg 180
tggatgctg agtgggtggc ttaacaaaaa cagcttgatg ggctgttcat ccctaaaact 240

<210> 5751

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-013-Q1-K1-D6

<400> 5751

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caactactac cattcagcca gctagctggc gtgagccctg ctaccttctt gacacaacca 120
cagttgttgc cgttctacca gcacgtgag cctaacgtg gcacctctt acaactgcaa 180
caattgctgc cattcaacca acttgctttg acaaacctag cagtgttcta ccaacaacct 240
atcattgggtg gtgccctctt ttagatttct tatgagttat agttcaataa taaagttttc 300
tgtctgaaaa attactgaag attaaaagca aaac 334

<210> 5752

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-014-Q1-K1-G5

<400> 5752

cccacgcgtc cgcagcagga tgatgacatc actgcggggc gaagcgacaa tcccatctcc 60
gccgtgggaa tcatgggtga gcgcttcgtt cttgggtggt tcgcctgttt ttcttggtag 120
tcttaggtac tattcttgct tacctggcca tcgctagcac tattttttgc ggcatctggt 180
gggttcgact atgacgatta tcctcaccta tgtaaacctt agattgatgg attttttaat 240
aaataaatag cagttctagc caaaaaaaaa aaaaaaccaa caaaaaaac ttgcaaaaa 299

<210> 5753
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-015-Q1-K1-B6

 <400> 5753

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 gagaatatga ctatcctggg ggaggatggt catgtgtgtg atgagggtga cagcaatggc 120
 ggtgttgttc tcccacataa agagatcaag tcaagcattc tgaagcctga gatcgtcatg 180
 tgagctctcc agtttttagct acagtacatt cttaacttct ttgacgaagg gaggattgca 240
 gatccccctt tataaacgat attgcttggg atcttcgac taatgcaaac agcttcatac 300
 ttggtctctt gttaaactat tgacaatgta tcttggctct tgttgaaaag ttagtactt 360
 gagtgtcaaa aaaaacaaaa 380

<210> 5754
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-015-Q1-K1-H2

 <400> 5754

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 gtcagcgtcg cggctccggt gagcgtgcgc gtcaccggcg gcaggcgagg gcaggcgggt 120
 gtggcgatgg cgtccgctga tgcgcgcttg gcggtgatcg tctcctccat cctgggtcatg 180
 cccgactttc ccaagccagt gatcatgttt caggacatca cgacgttgct gttcgtatccc 240
 aaggcgtacc gtgacaacat ctgacctttt gtcaagcggg acatggacca agggatcacc 300
 gt 302

<210> 5755
 <211> 299
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-016-Q1-K1-C11

 <400> 5755

acgagcaaag gaaggccagt ctcattgaag ggctcaacca actcaactcc tcgggcggcg 60
cagatgacga cgatgaggat gacgagtaaa gtttgggtccc atcgaagtag tgctatctta 120
tgcggcgatc agtatttgtg ctatggcatt tatcgctacc tgtagtcgtg caacatgcat 180
ttttgtttaa gtttgtcgat gcgaacaaag ttgtttctgt tagtttggag ctggagttct 240
gaatatttac ttttataata ttaaaattgg accgagttga acaaaaaaaaa ctaacaaaa 299

<210> 5756
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-017-Q1-K1-B1

<400> 5756

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gccatttagc caactcgctt tgacgaatcc taccacctta ttgcatcagc ccaccattgg 120
tgggtaccatc ttctagattt tttatgcttt atactgtaat aataaatttc tcatactgat 180
atgtgcaact tctcagtaat aaaagattag agatctatat tttaagttc 229

<210> 5757
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-017-Q1-K1-B12

<400> 5757

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cggctagttc agcactccat ttgcaagctg ctttgataat ttcattacct tcacgagcaa 120
gatcgcgccc ttcgttacga gcttgtacac aggcttctaa agccacacga ttagctgctg 180
caccaggtgc atttcccaa ggatgtccta aagttcctcc accaaattgt aatacggaat 240
catctccaaa gatttcggtc agagctggca tatgccaaac atgaatcccc ccagaagcca 300
ccgttataac acctggcatg gataccagc cctgaatgaa aaag 344

<210> 5758
<211> 260

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-017-Q1-K1-F2
 <400> 5758

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 gtcgacgcgt cgttcttgcc ggccgcggcc cacctccgcc ctctcctcct ccagggggat 180
 cggatacgcc acaggtgcg cgatgggtgct gtgggtcttc ggctacggct ccctcatctg 240
 gaaccccgcc ttcgacttcg 260

<210> 5759
 <211> 555
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-018-Q1-K1-D2-R2A
 <400> 5759

aaaacaagca caaaagcaat tgaccagact gtaagatcaa ctatcctgta tgtctttttc 60
 cagcatgtac cacaacaaag aaatgcctag ggtagttaac atctacggcc aaattgaaaa 120
 gtattgtttg gttgatcagc tgagtcagta ataggaggcc agcagctcca agattttatt 180
 gcctgctctt tttgtagctg caatcagggc acttgtagtg ctttatctgt tctgcttttg 240
 ctggggttat cctcacacat ttgccgtgga accaccgctc acaaattgtc catccaatcc 300
 agaactcact tgagttgtag agaccactgc aagaaccaca aagggtttcg ctgtgggtctt 360
 catcattctc atacctacat tcaccaactg ccactcttga gttctttatc tttccatcat 420
 ttgategctt cgttgagtgc ctggatttgc tgctgttatc aacaccagga ttattctccc 480
 ttcccttccg gtcagccatt atttcataca cagatggatg atcattaatc atgttgaatt 540
 atcgcttctt gtcgt 555

<210> 5760
 <211> 573
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-018-Q1-K1-D2.F2A

<400> 5760

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ctcgtcgtc gccgtacact ctgacgcttg gctcgtctcc gtcgcattct tcttcgccgc 120
caaaactcaac ggcaacgaca ggaagcgatt attcaacatg attaatgatc atccatctgt 180
gtatgaaata atggctgacc ggaaggggaag ggagaataat cctggtgttg ataacagcag 240
caaatccagg cactcaacga agcgatcaaa tgatggaaag ataaagaact caagagtggc 300
agttggtgaa tgtaggtatg agaatgatga agaccacagc gaaacccttt gtggttcttg 360
cagtgtctc tacaactcaa gtgagttctg gattggatgc gacatttctg agcgttggtt 420
ccacggcaaa tgtgtgagga taaccccagc aaaagcagaa cagataaagc actacaagt 480
ccctgattgc agctacaaaa agagcaggca ataaaatctt ggagctgctg gcctcctatt 540
actgactcag ctgatcaacc caacaatact ttt 573

<210> 5761

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-020-Q1-K1-C8

<400> 5761

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ctgcctttct accagcagtt tgcggctaac cccgcaacct tcttacaact acaacaattg 120
ttgccctttg tccaacttgc tttgacaaac ccagcagcct cctaccaaca acacatcatt 180
ggtggtgccc tcttttagat tgcttattag ttgtaattca ataataaagt tttttggatg 240
atgtatgtgg ccaaccagaa ataagaagtt acatttccag attctaattgt gaaaaaaatt 300
aagtgcatt 308

<210> 5762

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-021-Q1-K1-C7

<400> 5762

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 tcgtcgggtct agtagtgtgc ctgtgagcag cggcgtgctg ttgtacgtac gtctgcctct 120
 gttgttccat gtttcgggat tttccatagc aaatgcatgc gtcgagatct aatcagcgg 180
 tctatgctaa aatcagagaa ttggccgtag gtctttcaga aacaaaa 227

<210> 5763
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-021-Q1-K1-C9

<400> 5763

agcgacaaca gttacttaat ccattggctg tggctaacc attggtcgct gccttcctac 60
 agcagcaaca attgctgcc tacaaccggt tctctttgat gaatcctgtc ttgtcgaggc 120
 agcaacccat cgttggaggt gccatctttt agattacata tgagatgtac tcgataatgg 180
 tgccctcata ccggcatgtg tttcctagaa ataatcaata tattgggtga gatttatctc 240
 gataaaaaaa agaaactata aaatataaaa cacaatacta taagaaaaaa tatagctata 300
 aaaaaacgaa aatatgatat aaattaagag cagaagaact aaaa 344

<210> 5764
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-021-Q1-K1-D1

<400> 5764

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 gtgtttcttg tacacagaca ggcggctgca gatgtggtca acaacaaatc catgagcatc 180
 agcatcatcc acaacaacat catccacata aacaacaaca tcaaccacca ccacaacatc 240
 accagcagca gcaacaccaa caacaacaag ttcacatgca accactaaaa catctgcaac 300
 aacaagaagt tcatgttcaa caactacaac aacaaccgca gcacc 345

<210> 5765
<211> 570
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-021-Q1-K1-D2-R2A

<400> 5765

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aattacaact aataatcaat ctaaaagagg gcaccaccaa tgatgtgttg ttggtaggag 120
gctgctgggt ttgtcaaagc aagttggaca aagggcaaca attgttgtag ttgtaagagg 180
gttgcggggt tagccgcaaa ctgcttgtag aaaggcagca actgttgctg tgtcaagaag 240
gaagcacgac ttgctgcagc tagctcgcta aatggcagta gtatttgctg ctgcaaataa 300
gcagcgggggt tcagtgcggc caattgggta aatggaagaa gttgttggtg ctgagagtag 360
gcagtagcta gctggctaaa tggtaatagt tgttgctgca aataagcagc agggttcagt 420
gtagacagtt ggttgaatgg aagaaattgt tgttgctgag agtagggaga aaggtttgcc 480
agagctactt ggttgatcac aggtagcacg agttgctgca gctggttgctg cctgatgggt 540
tgtaccaatg actgcaccaa agatagggct 570

<210> 5766
<211> 571
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-021-Q1-K1-D2-SP6A

<400> 5766

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aattacaact aataatcaat ctaaaagagg gcaccaccaa tgatgtgttg ttggtaggag 120
gctgctgggt ttgtcaaagc aagttggaca aagggcaaca attgttgtag ttgtaagagg 180
gttgcggggt tagcccgaaa ctgcttgtag aaaggcagca actgttgctg tgtcaagaag 240
gaagcacgac ttgctgcagc tagctcgcta aatggcagta gtatttgctg ctgcaaataa 300
gcagcgggggt tcagtgcggc caattgggta aatggaagaa gttgttggtg ctgagagtag 360
gcagtagcta gctggctaaa tggtaatagt tgttgctgca aataagcagc agggttcagt 420
gtagacagtt ggttgaatgg aagaaattgt tgttgctgag agtagggaga aaggtttgcc 480

agagctactt ggttgatcac aggtagcacg agttgctgca gctggtgtgc cctgatgggt 540
tgtaccaatg actgcaccaa agatagggct g 571

<210> 5767
<211> 626
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-021-Q1-K1-D2.F2A

<400> 5767

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tacctgtgat caaccaagta gctgtggcaa acctttctcc ctactctcag caacaacaat 180
ttcttccatt caaccaactg tctacactga accctgctgc ttatttgcag caacaactat 240
taccatttag ccagctagct actgcctact ctcagcaaca acaacttctt ccatttaacc 300
aattggccgc actgaacccc gctgcttatt tgcagcagca aatactactg ccatttagcg 360
agctagctgc agcaagtcgt gcttccttct tgacacagca acagttgctg cctttctaca 420
agcagtttgc ggctaacccc gcaaccctct tacaactaca acaattgttg ccctttgtcc 480
aacttgcttt gacaaaccca gcagccttct accaacaaca catcattggg ggtgccctct 540
tttagattga ttattagttg taattcaata ataaagtttt ttggatgatg tatgtggcca 600
accagaaata agaagttaca tttcca 626

<210> 5768
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-021-Q1-K1-D3

<400> 5768

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gagcaggagg aggacaggaa gtatggcgca ctaccagcag gggaggcggc agcaagtgga 120
cgagtacggc aaccgggtcc ctgggggcca cggtgtccag ggccagcagc tgggtgaagc 180
cgccggcggg tacggcgctc caggcaccgg cagctacggc ggccagcagc aggccgggta 240

tggccccacg ggcaccggca cgcacgacgc cgggggctac gacggctcgg accatccggg 300
 ttacgggggt accggaacgg gcgtcgacga cgccggtggc ccaagtgcgt atggagcagc 360
 cacgggcacg agagccacg gcacgca 387

<210> 5769
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-021-Q1-K1-H7
 <400> 5769

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 tacgctccgt gctctctgtg cgtgctgctc cagcgagcat attaccgcaa tgctcacaca 120
 ctcttatagc gcacctgcta tccccatacc tctcaccaac gatgtcttca gtatgtgaaa 180
 atccaattct tctaccctac acgatccaac aggcaatcgc agcaggcatc ttacctttat 240
 cacccttgtg cctccaacaa tcatcagccc tattacagca gttacctttg gtgcatatat 300
 cgncacataa catcacggca caacaactac aacaactcgt gctagcgaac acttgctgtc 360
 tactctcagc aacagcagtt acactttggg cacttggttg cacacaacat aaggcacaaa 420
 aactacaaca actcgtgcta 440

<210> 5770
 <211> 92
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-022-Q1-K1-A8
 <400> 5770

gaattcccg ctaaaaaaaaa aaaaaaaaga aaaaaaaaaa aaaaaaata aatttaaaaa 60
 aaaaaaaaaa aaaggacaac cggaggaaag gt 92

<210> 5771
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-022-Q1-K1-G1

<400> 5771

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taccaagata ttatgcctgc ttgcgcttct tgcgcttttt gcgagcgcaa caaatgcgtc 120
cattattcca caatgctcac ttgctcctag ttccattatt ccacagttcc tcccaccagt 180
tacttcaatg gccttcgaac acccagctgt gcaagcctat aggctacaac aagcgattgc 240
ggcgagcgtc ttacaacaac caattgcccc attgcaacaa caatccttgg cacatctaac 300
aatacaaacc atcgcaacgc aacagcaaca acagtttcta ccagcactga gccacctagc 360
catggtgaac cctgtcgcct acttgcaaca gcagctgctt gcatccaacc cacttgctct 420
agcaaacgta gttgcaaacc agcaacaaca acaact 456

<210> 5772

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-023-Q1-K1-B2

<400> 5772

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cagcccttca acgctacagg ctccaacaag caatcgcaac aagcaactta cctttatcac 120
ccctgttctt tcaacaatcg ccagccctat ctttggtgca gtcattggta caaacatca 180
gggcacaaca gctgcaacaa ctcgtgctac cagtgatcag ccaagtagct ctggcaaacc 240
tttctcccta ctctcagcaa caacaatttc ttccattcaa ccaactgtct aactgaacc 300
ctgctgctta tttaacaaca caacaactac taccattcag ccagctagct actgcctact 360
ctcagcagca acaatttctt ccatttaacc aattggccgc actgaacccc tctgcttatt 420
tccagcagca aatactacta ccatttggcc agcta 455

<210> 5773

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-023-Q1-K1-C10

<400> 5773

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gcatcattgg atcttagata gctcccaaag ttcgatgtca gcgaggagat aagtagacaa 120
gtttgtgataa ttggtggcag ctggtattca ttgcgtaaag ttgctatcga aaattatagg 180
tgcatttgggt gtgttcttgc gttgaacttt ctccatgttc atgtttcttc caag 234

<210> 5774

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-023-Q1-K1-D12

<400> 5774

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tgctccttg gtatttgctg caagtgctag ctacgtgcga ccattttcnc cgcaatgctc 120
acaagnctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg tcttcggtat 180
gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcgcagct ggcattctac 240
ctttatcacc cttgttctc caacaatcat cagccctatt acagcagtta cttttggtgc 300
atttattggc aaaaacatc agggcacaac aactacaaca acttgtgcta gcaaacttg 360
ctgectac 368

<210> 5775

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-023-Q1-K1-G1

<400> 5775

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atactttccc tggttatgct ccttgctctt tctgcatgtg ttgctaacgc gacaattttc 120
cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180
gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgcagca 240
agcaacatac ctttatcacc cttgtttcaa caatcgccag ccctatcttt ggtgcagtca 300

ttggtacaaa ccatcaaggc acagcatctg cagcaactcg tgctacctgt gatcaaccaa 360
 gtagctctgg caaacctatc tgccctactat catcaacaac aatatctgcc attcaaccaa 420
 ctatctacac tgaaccctgc tgctcatttg cag 453

<210> 5776

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-023-Q1-K1-H8

<400> 5776

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 caagatgtca agaaccccg cgtgaagatg atcatctgaa aggcgggtcgt ggagcagttt 120
 tctccaggat ggataattgt cctaggataa agtgaattat atgcaaagtc gcgccagcga 180
 ggagttttgg tttatcttta gtttttattc gccggggaat cagtgggtctg gtggctgaat 240
 taggtatcat tagtccttgt gatctgctac cctatcatgc tgaggtgctt gtcagattct 300
 caattattca aacttcacat tttccatcga agaatgcata 340

<210> 5777

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-024-Q1-K1-C11

<400> 5777

gcacccgagt ggtcgacctg atccgccaca tgaacatcac caagtaaagtg aacaaagtga 60
 tgaaaacatg caaagagtga tgaaagcatg cagagagagt tgtgtttctt ccccggaagt 120
 gcttccgaga ataaattttt cttatctgat tgtctaaaac ctataacggg tgtaatggta 180
 tcgtagtggt tggctgagca tcatgtgact catattttgt caggtctatg tgatcatcctt 240
 aaacttgtaa cggtcattat atttcaaaag ttttgcattt tccaaaacta acaac 295

<210> 5778

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-024-Q1-K1-D4

<400> 5778

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tgcgcggggc tgcgaggggt tgtacggcgc tggcgccggc ctgacgacga tgatgggcgc 120
cggcgggctg tacccttacg cggagtagct gaggcagccg cagtgcagcc cgctggcggc 180
ggcgccctac tacgccgggt gtgggcagcc gagcgccatg ttccagccgc tccggcaaca 240
gtgctgccag cagcagatga ggatgatgga cgtgcagtcc gtc 283

<210> 5779

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-025-A7-F4B

<400> 5779

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tataccgcat ggggtggaaag tggccttgcc gtgaataaat ctcaagcaca agatgaacta 120
tgatgtgccc tatcatgttg gttcttcctt gctttgacga caaccttcgt atagaaaata 180
ataggtttta atgagcaaaa atatacttcc ttgggtatatt aaatatatga cacagttgat 240
tttogaaccg ctcgtcttgt ttaaaaaatc gtcagttttc attt 284

<210> 5780

<211> 260

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-025-A7-R4B

<400> 5780

cgcgatcgcg ggattnnntn aatcctccac atgcccactc ctgaattcct cctctgttct 60
gacgtccagg tagcgggtgac cgccggagcg gatgaggctg ctggctgccg ccacgcccac 120
ggccaccacc ggcggcgggc cgccgatgg cttctccgag ccgcgcgccca ccagcagcag 180
cgccgacaag gtgcagatcg taagcagggt ggccgacctc atgttcgtat cctggaaacg 240

gtgagacgcc acgacgggag

260

<210> 5781

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-025-Q1-K1-A4

<400> 5781

gtttggcgga gcagccgggg cgttagaatc tgaggaggag aagatggtgg tgctggtggt 60
ggccacgacg tcggagccgg cgtccattgg gcccgccgcc gccttcctcg ccatgcccg 120
atggtcccc ggccgcccc tcgccgaggg gatggagagt ttactaatg ggaatgttcg 180
attactgaag catgagcgta gcattgtcgc agaggatgat cttgaccagc gatggcagga 240
agccactgga gagtctgttt ctgagggtcat attcctcagc aaacacactg cagtctccaa 300
acgtccagca ctcacagtgc atccaattgg tgtgccacat ctgaaggagg atgaaacccc 360
acccaagga ggaactcctg gatgggcagc aattccaagt cctcgaattg gaccttggt 420
cccgttgatg 430

<210> 5782

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-025-Q1-K1-E3

<400> 5782

atagaaagca caatagtgtg ccaacaatgg cagccaaaat attttgcttc cttatgctcc 60
ttggtctttc tgcaagtgtt gctaccgcaa ccattttccc acaatgctca caagctccta 120
tagcttccct tcttccccca tacctctcac cagcgggtgtc ttcaatgtgt gaaaacccaa 180
ttgttcaacc ctacaggatc caacaggcaa tcgcaacagg catcttacca ttatcacct 240
tgttcctcca acaaccgtca gccctattac agcagttacc tttggtccat ttggtggcac 300
aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct gcatactctc 360
agcaacatca gtttcttcca ttcaaccaac tggctgcatt gaactctgct gcttatttgc 420
aacaacaatt accattcagc cagctagtgt ct 452

<210> 5783
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-025-Q1-K1-G7

<400> 5783

aagcaacata gaaagtggaa tacaggagca aaaatagagc aacaatggcg gccaggatag 60
tttccatcct tatgtctcctt gctctttctg catgtgttgc taacgcgacc atttttcctc 120
aatactcaca agctcctata gctgcccttc ttccccata ctttccatca atgaccgctt 180
tagtatgtga aaaccagcc cttcaaccct acaggatcca gcaagcaatc gcaacaagca 240
acttaccttt atcacacctg ttctttcaac aatcgccagc cctatctttg gtgcagtcac 300
tggtacaaac catcagggca gaacagttgc agcaactcgt gctaccagtg atcagccaag 360
tagctctggc aaacctttcc ccctactctc agcaacaaca atttcttcca ttcaaccaac 420
tgtctatact gaaccct 437

<210> 5784
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-026-Q1-K1-H6

<400> 5784

aatggaagaa actgctgttg ctgagagtag gcagcaaggt ttcctagcac aagttgtggc 60
agttgttgtg cctgcacgct gcgcctaacg ctggcaccct cttacaactg caacaattgc 120
tgccattcaa ccaacttgct ttgacaaacc caacagcggt ctaccaacaa cccatcattg 180
gtggtgccct cttttagatt gcttatgagt tatacttcaa taatgaagtt ttttggatga 240
tgtttgtggc ttaccagaaa taagaaagtt catttctaga ttcttaaaaa aaacaaaccc 300
aacagcgttt taacaa 316

<210> 5785
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-027-Q1-K1-D4

<400> 5785

agcacgttgc gcctaacgct ggcactctct tacaactgca acaattgctg ccattcaacc 60
aacttgcttt gacaaaccca gcagtgttct accaacaacc catcattggt ggtgccctct 120
tttagatttc ttatgagtta tagttcaata ataaagtctt ttatctgatg tttgtggctt 180
cccagaaata agaaagtaca tttctagatt cttatgtgct tctaaaaaat taccattatc 240
accctag 247

<210> 5786

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-027-Q1-K1-F12

<400> 5786

cgccagcccg gacggctata aagacgagggc ccattctgaa atcgtcggcg atgaagaaga 60
ccagttcccc tctcctgac gtgctgttcc tcacagcagc agccatggcg gccgagccgg 120
agaagcagggc ggcccccgcg gcacaggaga cgcccggtgca catcgtgtac gttgaccgcc 180
ccgaggagcg cgaccctgag gagttccaca tccgcacct ccccccgtc ctcggcagcg 240
aacagaaggc cagggacgca gtgctctacc actacaagaa cgccgccagc ggtttctccg 300
cgaagctcac cccccagcag gtcaaggatc tcaaggagca accaggtgtt ctccagggtg 360
tgccgagcca gacttaccag ctacatggcc ctgggtctgg cactcaccag ggcacgacac 420
acaccttggg ctttatgtga aagcgtatg 449

<210> 5787

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-027-Q1-K1-G1

<400> 5787

gggaacttga ccttcaaaca tcttttgaag gtctgaagat ggaaatataa tcttctgctg 60
aactgacaga aactttgtga attgcaaagc aaccgaatt gaatgggtta gctcgtcatt 120

cttgatcctg tcacagcgag tggtagcgtc attgacgctt gcccatggaa ttatgacaac 180
 tgcattctgcc atgagctgtg taattgcaat tcttacattt tacctgtctt ttgtcaatgg 240
 taacatctcg tgactcttgt ttgactaaca taaataaa 278

<210> 5788

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-027-Q1-K1-G12

<400> 5788

caaggatcta ttgacaaga tcgagagcgt tgtcatggag atggtattca aagtccatag 60
 gggggcaggc aagctcaagg tcttgaagaa tagcaagtgt tccaggaacc cgtcatcatt 120
 gttggtgtgc accgaggtgt ttgagctcgg tccatcatta tatgtcgtag agcttaggaa 180
 atcccacgga gactctacgt tgtatagaca gctgtgcgaa aggctctccg atgagctagg 240
 tgcttgcaag acagaccaga tcgagaggac tgaatcatcg agtgacgacc tctcgagcgt 300
 cgatggcgaa gcgttccttc tatctgggtt ctgatcatat tgctttccct gtgttgcttt 360
 gggaacaggg gatgaggaac atgctcgttc ctgatgcaat tctagattag gatcatgaat 420
 atagtgtaca aagccagcgg cggctgc 447

<210> 5789

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-027-Q1-K1-G6

<400> 5789

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 gcttctaaga catcattcct ccttgcgctt tttggccact atgtgagtgc aacgcttcac 120
 gtgcattatt agacaatgct tcaactcgctc cgagtgccat tattccacag tttcgtgctt 180
 gtgaaaactc aaatgtgcat ctatcaccga tctagccgag tttataagct agaattattac 240
 gcttgatgac agtgttttat a 261

<210> 5790

<211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-028-Q1-K1-B7

 <400> 5790

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 ccacccctg tttgtatggt gtggctccat gtgcgagcac gctgtctgcc gtgacacctg 120
 gttcgtcaga tgttttgtca aacttgcttg gcttgattgg ctgtacttgt acctgtaaga 180
 gctgatagtt atatgaatgg tttggactgt cctgctgttt aaaaaagatc a 231

<210> 5791
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-030-Q1-K1-A8

 <400> 5791

 cccacgcgtc cggcatcgag agcggcacac gtttctgcat caccgcgccc atcggcggca 60
 gcatcgtggg attctatgga cgcgcgacga ccaggctcgt cgctgcgacg ggtgtctacc 120
 tgcgcgaact ttagtctggt ttcagcagca ggacgggtac tacagatatg ctagataaag 180
 gtcttatata tgtcatatga cctatcatgg tcttatatgt tcgatcgtcg tcgtgtctgt 240
 atgtacatac atggctgtca aataaagctc tttgcattct gataaagaaa caaaccaaca 300
 aggcaaca gctgcaacaa ctcaagc 327

<210> 5792
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-030-Q1-K1-D5

 <400> 5792

 ctttgagagg ttactggaag aggaggctct gacgacaagc acactcgccg ccggtggtgg 60
 tggtgccgag gtgtggttgc tcagccgccc taaatgttga ccggccgccc gtgatggaag 120
 aggcggaac gacgatggcg catgcggcgg tgagtagtgc cgtagtaggt gaccccatgg 180

agtacaatgc catactgagg aggaagctag aggaggacct cgaggccttc aaaatgtgga 240
 ggacggcctc ctccagcgta gtgacctctg aacgttctca aggctcaaac aatcacactg 300
 gaggtcgcag catcaggaat aattcagcgc agaacaagct gatgaacggt gtaa 354

<210> 5793
 <211> 53
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-031-Q1-K1-F9

<400> 5793

ccgtacctct caccagcggg gtcttctgta tgtgaaaacc caattcttca acc 53

<210> 5794
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-032-Q1-K1-D12

<400> 5794

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 actaagagggt ggatctcttt taggggggagt tttgttttagt caaaggaaaa gcatttgaaa 120
 caggggggagg aaattttcaaa tcttgaaaat gcttttgcaa actcttattt atttaccttg 180
 actatttgca aaagatctat gaaatggatt tacaaaaagg ttttgcaaaa acaaaacaag 240
 tgggtgcaaac gtgggtccaaa atgttatata agaaagaaac attccttgca tatcttgtaa 300
 gtagttatat tggctaaatt ccaagcaacc tttgcactta ttttatgcaa actagttcaa 360
 ttatgcactt ctatatttgc tttgggttgggt gtggcatca atcaccanan aggggggagat 420
 tg 422

<210> 5795
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-032-Q1-K1-G10

<400> 5795

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tgctcgttgg gctcgtcttc ctggtctctg ctgcgagcgc cacctccacg catacaagcg 120
gctggctgctg ctgccagcca ccgcgcgcgg ttcatctacc gccgccggtg catctgccac 180
ctccggttca cctgccacct ccggtgcac tcccaccgcc ggtccacctg ccgccgccgg 240
tccacctgcc accgccggtc catgtgcgc cgcgggttca tctgccgccg ccaccatgcc 300
actaccctac tcaaccgccc cggcctcagc ctcatcnca gccacacca tgcccgtgcc 360
aacagccgca tccaagcccg tgccagctgc agggaaacctg cggcggtggc agcaccgccg 420
tcctgggcca gtgcgt 436

<210> 5796

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-033-Q1-K1-A10

<400> 5796

ctaaccatt ggtcgccgcc ttcctacagc agcaacaatt gctgccatac aaccagtgt 60
ctttgatgaa tcctgtcttg tcgaggcatc aaccatcgt tggagggtgcc atcttttaga 120
ttacatatga gatgtactcg ataatgggtgc cctcataccg acgtgtgttt cctagaaata 180
atcaatatat tgattgagat ttatctcgat aaaaaacaat actaccaaata aaaacatgca 240
ataagaaaaa caagacaaaa tataacaata aaacaacaaa tgctgactct ctactaacta 300
aaaa 304

<210> 5797

<211> 69

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-033-Q1-K1-F1

<400> 5797

acgcccacgc gtccgcggac gcgtgggaaa aaaaacaaaa aaaaaaaaaa aaaaaaaaaa 60
gggaaagaa 69

<210> 5798
<211> 52
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-035-Q1-K1-B9

<400> 5798

gaaccccccc tttaccggcc cattaacccc gccgggtttg gtggttaccc cc 52

<210> 5799
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-035-Q1-K1-C10

<400> 5799

cccacgcggg gccagcaatg atgcattata catctataat taacttctat gtctcatgtt 60

tgtgtgttgc gataaataag aaagtacatt tctatattca t 101

<210> 5800
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-038-Q1-K1-B7

<400> 5800

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acaatgctca ctctctcata caccaattat acctcaactg cttccaccat atactctcaa 180

ctaccttcta tcacctagct cagcaaccct acaaaccata acaagcgctt actgaacaac 240

ttcatacaac aaccaactca ccaattccaa caccaatcct tggcacatct aaccatacca 300

acactatcac cacaccagca acaactgatg ctaccatcaa ctgaccaact aaatgtctac 360

aaccctgtac actac 375

<210> 5801
<211> 403
<212> DNA

<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-038-Q1-K1-E2

<400> 5801

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aaaaaaacag caatgaagtg tagcggttaca gttacacctg ctgtgttggt gctctttgca 120
aaactactgt ctagactccg cctggtaatt agtgtactga tagcgaggta aaaaaaagtt 180
agattatttg ttagcagcgg cagtgatttg acatctaagg aacaacaaca cgggtgtccac 240
cgattctgct atcctgatgg ctgcggcgag cctggctggt cggcacacga cacgaagtga 300
agctgtttta ctggcggcat ctggctttgn tatctcatgg gacagtgatc cacaagagta 360
aaggatcagc tcaatccana gtcaatagat gttccttata aaa 403

<210> 5802
<211> 146
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-038-Q1-K1-E8

<400> 5802

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gtaccaaga tatgagccct ccttgcgctt ctgcccctt tagtgagcgc aacaaatgcg 120
ttcattattc cacagtgctc acttgc 146

<210> 5803
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-040-Q1-K1-A2

<400> 5803

cagcaacata gaaagcacia tagtgtacca acaatggcag ccaaaatatt ttgcttcctt 60
atgtccttg gtctttctgc aagtgttgct accgcaacca ttttcccaca atgtcacia 120
gtcctatag ctcccttct tccccatac ctctcaccag cgggtgtctt aatgtgtgaa 180
aacccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240

tcacccttgt tcctccaaca accgtcagcc ctattacagc agttaccttt ggtccatttg 300
 gtggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgca 360
 tactctcagc aacatcagtt tcttccattc 390

<210> 5804

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-040-Q1-K1-E3

<400> 5804

ctagcaacat agaaagcaca atagtgtacc aacaatggca gccaaaatat ttgcctcct 60
 tatgctcctt ggtcgttctg caagtgtctg tacggcgacc attttccgc aatgctcgca 120
 agctectata gtttcccttc tttccccgta cctctcacca gcggtgtctt cggtatgtga 180
 aaaccaatt cttcaaccct acaggatcca acaggcaatc acagctggca tcttaccttt 240
 atcacccttg ttctccaac aatcatcagc cctattacat cagttacctt tgggtgcattt 300
 attggcacia aacatcaggg cacaacaact acaacaactt gtgctagcaa accttgctgc 360
 ctactctcag caacagcagt ttcttccatt caaccaacta gctgc 405

<210> 5805

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-041-Q1-K1-E6

<400> 5805

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 aagatTTTTG cctccttgc cctccttgct ctttcagcaa gcgctgctac ctgcactttt 120
 attccacaat gtcacaaca atacctctct ccggtgacag ccgcgggatt tcaataccca 180
 actgtaccat gtaggattgt atagttgggt ctagatcgcg a 221

<210> 5806

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-041-Q1-K1-E7

<400> 5806

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aagatTTTTG ccctgcttgc cctccttgct ctttcagcaa gcgctgctac ctcgactttt 120
attccacaat gtcacaaca atacctctct ccggtgacag ccgcgggatt tcaataccca 180
actgtaccat gtaggattgt atagttgggt ctagatcgcg a 221

<210> 5807

<211> 277

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-042-Q1-K1-A9

<400> 5807

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caataatgca ccacatgtac gcgtacgcgc gccgagctgt gtggacgccg cagctagcat 120
gcacggccat cgttcctata cgtcgtcgtc tgtcgttcga gtactcatga gctgtgtcgt 180
cgacgtccac ccatgcatcc ggccgccacg ctttgatgat ggtcatgaca tcttgacaat 240
aaacacgtgc atgcagtatt atatacaaaa aanaaaa 277

<210> 5808

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-042-Q1-K1-C2

<400> 5808

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tttcttatga gttatagttc gataataaag ttttttgtct gatgtttgtg gcttcccaga 120
aataagaaag tacatttcta atacaacaac caatacat 159

<210> 5809

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-042-Q1-K1-F9

<400> 5809

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atattttccc tccgtatgct ccttgctctt tctacatgtg ttgctaacgc gacaattttc 120

cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180

gcttcagtat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240

agcaacatac ctttatcgcc cttgttgttt caacaatcac cagccctatc tttggtgcag 300

tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac 360

caagtagctc tggcaaaacc tttctcccta ctctcagc 398

<210> 5810

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-042-Q1-K1-G4

<400> 5810

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ccattcagcc agctacgtgc tgactgggcg cagcaatctg ttgcattgaa ccaactggca 120

gcattgaact ctctgctta tttacagcag caacaactac taccattcag ccagctagct 180

ggtgtgagcc ctgctacctt cttgatacaa ccacagtgtg tgccgttcta ccagcacgct 240

gcgcctaacy ctggcaccct cttacaactg caacaattgc tgacattcaa ccaacttgct 300

ttgacaaacc cagcagcgtg ctaccaacaa cccatcattg gtggtgccct ctattagata 360

tcttatgagt tatagctcaa taataaagtt ttcagtctga aaaaaaaaaat cgacgaacca 420

ccctgaaac 429

<210> 5811

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-043-Q1-K1-A10

<400> 5811

gttctgagta cttggcattc aaggaacagc tgggtgatgg acaatccaac aacaactgtg 60
tgcttgagct tgattaggag ccttcaatg cctactttcc tcgtccttac atgtcgaagt 120
ccatcggaaca tggaatgcaa ttccttaacc gacacctgtc gtccaagttg ttccaggaca 180
aggagagttc gtaccccttg ctgaacttcc tcaaggctca taactacaaa ggccacgacg 240
atgatgttgg atgacagaat tccaagcctt cgtgggtctcc aatcatccct gaaaaaggca 300
gaagagtatc tactgagtgt tccttaagac actccctact cggagttcaa ccataggttc 360
caa 363

<210> 5812

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-043-Q1-K1-A3

<400> 5812

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agatgggaag agacggggaa gagactaggc gccggagcag caagagatcc cgcgacgcct 120
ccccctcgac ggattccgat tccttcgact ccccatcctc tccgagcagt agccctgagc 180
gacggatccg cagcagtaag cggaatagat catcctcacc gcaccgccgc agccgcatga 240
aaagcgaccg gtcgcggaaga tcccgcgacg aggaccgccg gcggcggaaga agacgggccc 300
aggatagaaa gcggcacggt ggagatggtg gcaggctctc tgactccaaa tcgtctgagg 360
aggataggtc ggacgaggcg cgggagatcg tccgagata 399

<210> 5813

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-043-Q1-K1-C5

<400> 5813

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tagccaatct atgtcagtga tgccgaacaa gttaccgat tgtgtgtgta ctagcacatc 120

tcttcatcat gggagatatg ttaccacatt acttggtgca tactgtccta attggtcaga 180
aaaccctgga ataattaaat aatccttcaa tggctt 216

<210> 5814

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-043-Q1-K1-G12

<400> 5814

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ctaccaagat attaggcttc gttgcgcttc ttgccctttt tgtgagcgca acaaatgcgt 120
tcattattcc acaatgctca cttgtccta gtgccattat tccacagttc ctccctccag 180
ttacttcaat gggcttcgaa caccagctg tgcaagccta caggctacaa caagcgcttg 240
cggggagcgt cttacaacaa ccaattgccc aattacaaca acaatccttg gcacatctaa 300
ccatacaaac catcgcaacg caacagcaac aacaatttct accagcactg agccaactag 360
ctgtggtgaa ccctgtcgcc tacttgcaac agcagttgct t 401

<210> 5815

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-044-Q1-K1-E1

<400> 5815

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ataag 65

<210> 5816

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-045-Q1-K1-F5

<400> 5816

cccacgcgtc cggctgatga tccaagtagc agagctagtt cccaagcatc acggaaggac 60

aaagaagcag gagccagcgc ccaatcccgg tggcagttca aagaacacaa aaggcgggaa 120
 aaagaaaaag tgatgcagta tcattgtggt gttttttgtt ctgttcgtca tcatacacta 180
 agcttctgtg aaaaagaaaa agtcttggac gttgttggtta tgttgccatt gtgccatttt 240
 tcatgtataa gaacttacta agaatcttcc aaaaaaaaaa aaaaaataaa aaaaataaaa 300
 ataagaaaaa aaaaaaaaaat aataaaaaaa aaagaaaata attacattaa accaaataaa 360
 a 361

<210> 5817

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-045-Q1-K1-G6

<400> 5817

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 ataaagttgt ttatctgatg tttgtggctt cccagaaata agaaagtaca tttctagaaa 120
 aaaaaaaaaa aaaaaaaaaa acaaaaaacc taacaaa 157

<210> 5818

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-046-Q1-K1-A7

<400> 5818

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 tcaaccaact ggctgtgtca aactctgctg cgtacctaca acagcgacaa cagttactta 120
 atccattggc agtggctaac ccattggctg ctaccttctt gcagcagcaa caacaattgc 180
 tgccatacaa ccagttctct ttgatgaacc ctgccttgca gcaacccatc gttggagggtg 240
 ccatctttta gattacatat gagatgtact cgacaatggg gccctcatat cgacatgtgt 300
 ttcttagaaa taatcaatat attgattgag atttatctcg ataaaaaaaa aaaaacaaga 360
 aaaataa 367

<210> 5819

<211> 277
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-046-Q1-K1-B3

 <400> 5819

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 agttgacgtg tagcatggag ttctcctttg actttgatgt atctatcagt ggtactcaat 120
 ttttgcgaaa aggtcctcta atgtaatggg taagacttcc gagcagcact tataggtctc 180
 gggttcgatc cctcttgaga acgaatttcg ggcttagcta agcaaaatta tcttacaaca 240
 ctagatctga ttggccctga tgggaagaca ctgaaac 277

<210> 5820
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-047-Q1-K1-B3

 <400> 5820

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 aacccacttg ctctggcgaa cgtagctgca taccagcaac aacaacagct gcaacagttt 120
 atgccagtgc tcagtcaact agccatgggtg aaccctgccg tctacctaca actactttca 180
 tctagcccgc tcgcggtggg caatgcacct acgtacctac aacaacagtt gctgcaacaa 240
 attgtaccag ctctgactca gctagctgtg gcaaaccctg ctgcctactt acaacagttg 300
 cttccattca accaactggc tgtgtcaaac tctgctgcgt acctacaaca gcgacaacag 360
 ttacttaatc cattggcagt ggctaacca ttggctcgcta cctttctgca gcagcaacaa 420

<210> 5821
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-047-Q1-K1-G12

 <400> 5821

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acttgaggac tctcaatgaa gctgaaaggt gttgctgcct tgcagaatga agttttgagt 120
ccaatacatg gaattcatat ttggtggtgt tgttttgga cttcaaaatt ttgaagccgt 180
cagcattttc cttgtttatc tactagatgc ctgcctgctc tatttcttac tcttcagtct 240
tgactggtgc ctactgtctg agtgcagatt cagtgcgata gttacattct gctgatgtgc 300
tcacatgttc attgtaaaca aatttcttgc tgagtaactt attaaacatg tgtgatatct 360
tcaaaaatca aaaa 374

<210> 5822

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-048-Q1-K1-A2

<400> 5822

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tatccctcct tgcgcgtctt gcgctttttg cgagcgcaac aaatgcgtcc attattccac 120
aatgctcact tgctcctagt tccattattc cacagttcct cccaccagtt acttcaatgg 180
ccttcgaaca ccagctgtg caagcctata ggctacaaca agcgattgcy gcgagcgtct 240
tacaacaacc aattgccc aa ttgcaacaac aatccttggc acatctaaca atacaaacca 300
tcgcaacgca acagcaacaa cagttcctac cagcactgag ccacctagcc atggtgaacc 360
ctgtcgcta cttgcaacag cagctgcttg catccaaccc acttgctcta gcaaacgtag 420
ttgcaaacca gcaacatcaa caactgcaac agtt 454

<210> 5823

<211> 193

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-048-Q1-K1-G1

<400> 5823

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ggatggggct cgttctgtca aagcaagttg taaaagggc atcaattgtt gtagttgtaa 120
gagggttgcy gtgttagcca taaactgctt ttttaaaggc agcaactgtt aatgtgttaa 180

cattgaagct ctg

193

<210> 5824

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-050-B5-F4A

<400> 5824

cctagtgaca ctaccagata cctgtggttag tccaggggct tggctctcggg gaactccttg 60
ctotttctgcc tcatctgttc tgttatctca cccatcgcca ccagagtctg tcagatcaga 120
ggacaggaca gggacaggga caaaaagatc ataacaaaat acgcacatga tttcatgcta 180
gtcgtcaaaa cccagccaga agaaagaaaa aaaactacta ctataaccaa gcaagcaata 240
aataagcacc ggattgtttg cggcgaggcc cccgtcgata acgttgaagc tacgcgatgc 300
gccagtgcgg tgatccacgg tttcaaagta gtgcgcaggg aggaccgtcg gtgctgcgga 360
cgtgccaatg cacacatcag caagacgagc attcatcaag gcactagatc ttgccttgaa 420
tgtgctgaat attgttggct ttacgcactt gacatcg 457

<210> 5825

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-050-B5-F5A

<400> 5825

atagatatag taatacatac atactgagac aaaacgcgaa attctgggta ccttgtacat 60
aaacaattta gagatagata aaactgagca gtctcagatg ggaaatcgta cagatattcg 120
ttaaacagct agccatacaa acctgcatgg gaagatgcga ggactgtgct cgaggtagaa 180
tggcacgatg tccttggcct catagcatgg ttgcttggca ttgctcagcg acggagctgc 240
cagcattgca gcaataagac cacctgtgct tgtgccagcg atgacatcaa agtagttagc 300
tatgcgcgcy ctgctcccat caagctccta aaaaaatgta aaagaacacc aacgaataaa 360
tggcactcaa acttgcatgt atatatgcat ttaggtcaa ggaacaataa acgtgtagag 420
tttacctgga gtttagactc aagg 444

<210> 5826
 <211> 181
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-050-B5-R6B

 <400> 5826

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 tgcaagctgt tgtgtgtgta ttgcaagttg tgacgacgac gtgagtgtgt acgtaaatgg 120
 ataaggcgat atggtttgct ttggagccct gtacgtaaat ggagaaaatg tgatgccttg 180
 g 181

<210> 5827
 <211> 86
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-050-Q1-K1-C10

 <400> 5827

 accttcgatg aaagtttttg gacaatatTT gtggctctct agaaataaga aagtacatct 60
 ctagaaagaa aggggaaaat tataaa 86

<210> 5828
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-050-Q1-K1-E7

 <400> 5828

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 gcaggattga actctgctgc ttatttaca cagcaacagc taccaccatt catccagcta 120
 gctgatgtga gccctgttgc cttattgaca catcaacagt tgttgtcgtt ctacctgcac 180
 gctgcgccta acgcttgac ccttttaca ctggaacaat tgctggcatt caaccaatt 240
 ggtttgacaa acccaacaac gttctacca caaccatca ttggtggtgc cctcctttag 300
 attgcttatg aattatactt caataatgaa gttttttgga tgaagggtgc ggctttccag 360

aaattagaaa gttcatttct agaaaaaac acaga

395

<210> 5829

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-051-Q1-K1-A4

<400> 5829

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gtagtccga cttttcaatg ccgaaatgat tagtccgact ggatcacaca tggtagctcg 120
ggtacatgat ctgtagccca caagcaaaat cacagagaca cttggcagac aagaagaaga 180
gttatccaga tctagctttg tttcagggtc ttatctggca tctcgctcca actaatctga 240
tcagtacagg ctttctgag cggcgctggg tcggatctgg cctgatgggc tcccctgtga 300
agggatcaaa cttgtaaggg tcacctgtga atggatc 337

<210> 5830

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-051-Q1-K1-B1

<400> 5830

ctggagatga ttgcaaact cagtgtatta ttgatcatca agctcttccc cgcctcatga 60
atctgttgac gcagaaccac aagaaaagca ttaagaaaga ggcattgctgg actatttcaa 120
atattactgc tggaaacaaa gatcagatac aggctgtcat aagtgccggg atcatcgctc 180
ctttgttgca actgcttcaa acagcagagt ttgatataa gaaggaggct gcttgggcca 240
tctcaaatgc tacctctggg ggttctcatg agcaaatcaa gtacttggtg tctgagggct 300
gcatcaagcc attgtgtgac cttcttgtct gccctgatcc gagaattgta acagtttgtc 360
tgagggtct tgagaatatt cttaaagtag ggcagcatga caagaccatg ggtgcaacag 420
gtgacactaa cgtcttagct cagatgatcg atgaaacg 458

<210> 5831

<211> 381

<212> DNA

<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-051-Q1-K1-H5
<400> 5831

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agccggatcg cctgctgttg gtgcatctgg tgattaataa tactactatg acagagccat 120
gctctgtgaa gagtattagt agcagcgctc ataaaagcta cagttccgct tcttttctca 180
gctatgtaaa acttccaaac tgttcatgct taaaactgag ggttttcttg gtgtgaggtg 240
tgcatgtcgt tgttgaggcc attgctgcac attccaccta ttgaggccct cctcaaatta 300
agcctcgaag aagctgatat cttttcgtaa aactctagac tacgggtgaat gcaactgggc 360
tggttgcttc aaaaaacana a 381

<210> 5832
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-052-F9-F6A

<400> 5832

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gtgttttttt tttctggcca cggtcgcctg cctaccactc gggaaaccgc agcgcccgtc 120
cttgtgaagg catgaaatag gatgatcgtg ccaccataga acataactgg gaaatgaatt 180
cgacatggaa ctgggacagt ttgtctgtat actcacaaaa taagatcgcg tgggggtttc 240
ttcttgaaat gcaaagaaac cactcattct tctcc 275

<210> 5833
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-052-F9-R6A

<400> 5833

acctcctcgt actccgcggg cgccagcggg gcgccacctg gctgcgcctg cgcggcggcg 60
gcggatgcca tggcgcggcg gatgatgatg aggtgggcgg ttggagagag gaggagcagg 120

cgccggaggt gggcggcgag agcgggacgc gagcgcataa gcgtcgtgga gcaggcgagg 180
ggagtgccgg tgggagggcg gaggtggggg tgggggttgg tgacactgcc ggcggcgccg 240
tggtgggccc cacgggcgcc gca 263

<210> 5834

<211> 253

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-053-B4-F6B

<400> 5834

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agccttttta gtccctgttc gtcgtcagg gcacagtata caccgtcata ttctgtcaaa 120
tagatgcaat gcaacgactg cgcgccgtgc ttgtgttgca agcgtggata atgcatatat 180
attgtagcat tgacatgatg tgcgttattg cattacgtaa gggagttgga taaataagt 240
tgatttgttt gtc 253

<210> 5835

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-053-B4-R6B

<400> 5835

tgcgccgcc gccactcggc cgggcgcgtc tgccccgcc cgaagctcgc gcgcagctcc 60
cgcaccgtct cctccgccat ccccgcttc cttccttct tcttctctgc cttcctccg 120
gtccccgtaa caggagagca cagcaacaac aagagaagcg gacgcgaaag gggagtcgg 180
tggcggtagg agcgaggcct gcggcgccgg cggccgtgtg tatgtatata cacacgc 237

<210> 5836

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-053-Q1-K1-B4

<400> 5836

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cctttcgcgt ccgcttctct tgtgtgctgg ctctcctgtt accgggaccc ggaggaaggc 120
aggaaggaag gaaggaagga aggcggggat ggcggagaga cgggcgggag ctgacacgag 180
cttcgggcgg gcagacgcgc tcggccgagt gccggccgcg caactaaggg gcttatccgg 240
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catatggagt ctttcctcca cgagatatca cttaccaagt cgtcgtgcca gtttgcgctc 360
aaggggctca agaactggat gaagcccgag aaggtaacct cggccataac tacattcccc 420
t 421

<210> 5837

<211> 116

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-054-Q1-K1-B5

<400> 5837

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tacagctttt tgtctgaaac aaacaacaat acttgccaca tataacaata caagcc 116

<210> 5838

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-054-Q1-K1-D2

<400> 5838

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tgctcgttgc cctcgctctc ctggctctcg ctgcgagcgc cacctccacg catacaagcg 120
gcggctgcgg ctgccagcca ccgccgccgg ttcattctacc gccgccggtg catctgccac 180
ctccggttca cctgccacct ccggtgcac tcccaccgcc ggtccacctg ccgccgccgg 240
tccacctgcc accgccggtc catgtgccgc cgccggttca tctgccgcgc ccaccatgcc 300
actaccctac tcaaccgccc cggcctcagc ctcatcccca gccacaccca tgcccgtgcc 360

aacagccgca tccaagcccg tgccagctgc agggaaacctg cggcgttggc agcacccccga 420
 tcctggggcca gtgcgtcgag ttcc 444

<210> 5839

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-054-Q1-K1-F4

<400> 5839

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 aaggagacac tgggaagtgg tgatgataaa gaggatcacg aaatacagct caaacaata 120
 agacaggaca tggaactttt gcgtgatgat aaatctctct tggagataat tttggatgag 180
 aagaatgctg aagtgcgcaa gatttctagc agattaaatg atcttgatct gcagctaagg 240
 aaggagaaaag aggaatgcca caggatgacc tcaaaaatta aaaagttcct taaagcccat 300
 gctcgttttt tgaaagcaca ggaagaattg aaaaggtcac aagctcgttt tgagagactc 360
 ggtgatttac ttgcttcaga tattctgaaa cgtggtgcta atgaagaagt ttctagtatc 420
 aatgttgatg aagatccaaa tgttccttat g 451

<210> 5840

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-055-Q1-K1-D3

<400> 5840

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 tatgctcctt ggtctttctg caagtgtgc tacggcgacc attttcccg aatgctcgca 120
 agctcctata gcttcccttc ttccccgta cctctcacca gcggtgtctt cggtatgtga 180
 aaaccaatt cttcaacct acaggatcca acaggcaatc acagctggca tcttaccttt 240
 atcacccttg ttctccaac aatcatcagc cctattacat cagttacctt tgggtgcattt 300
 attggcacia aacatcaggg cacaacaact acaacaactt gtgctagcaa accttgctgc 360
 ctactctcag caacagcagt ttcttccatt caaccaacta gctgcattga actctgcttc 420

ttatttgcaa caa

433

<210> 5841

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-055-Q1-K1-E2

<400> 5841

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caagtccctc gaggtcacc tcgccggcaa aacctatgtg tctggtgact ccattactaa 180
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tggtgtaaat ctgcctgcgg gatcagctcc tgcggcagct gtcctgcgg atgaagctga 360
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tg 422

<210> 5842

<211> 204

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-055-Q1-K1-E4

<400> 5842

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taaagtcttt tggatgatgt atgtggccaa ccagaaataa gaagttacat ttccagattt 180
taatgtgaaa aagctaacca tata 204

<210> 5843

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-055-Q1-K1-F12

<400> 5843

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tctgactcag ctagctgtgg caaacccctgc tgcctacttg caacagctgc ttccattcaa 120
ccaactgact gtgtcgaact ctgctgcgta cctacaacag cgacaacagt tacttaatcc 180
actagcgggtg gctaaccat tggctcgtgc ctctctacag cagcaacaat tgctgccata 240
caaccagttc tctttgatga accctgcctt gttgtggcag caaccatcg ttggagggtgc 300
catcttttag attacatatg agatgtactc gataatgggtg ccctcatagc ggcatgtgtt 360
tcctagaaat aatcaatata ttgattgaga tttaaaanan aaaa 404

<210> 5844

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-055-Q1-K1-H6

<400> 5844

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gagctctacg agtggaccaa ggtcgacatc tctgatgagg cccagaagga gcgtgtcaat 120
gccatgatcg aggaccagga accctttgag ggcgaggcct tgcttgacgc gaaatgcttc 180
aagtgagtggt gctttatcca gagctgttta gccctcgaat tggatgtcta tgttgatctg 240
gtatatcttg ctatgaactg gtttaagggtt gtgctgggtt gagaattttt gtttaccttg 300
tcatcattca agtggttcgc cgtaacaatt ttggtcaciaa aaatatacca acaacctaac 360
attaaagaat 370

<210> 5845

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-056-Q1-K1-E5

<400> 5845

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cccaccggcg atgtcgaaga cggccgagtt cgtgggtctct aaggtggacg acctgatgaa 180
ctggggcgct aagggctcga tctggcccat gaccttcggg ctgcctgct gcgcggtgga 240
gatgatgcac gccggcgctg cccgctaaga cttcgaccgg ttcggcgta tcttccgtcc 300
gtcgccgcgc cagtccgatt gcatgatcgt cgcgggcacg ctcaccaaca agatggctcc 360
ggccctccgc aaggtttatg accaaatgcc tgagcctaag tgggggtattt caatgggcag 420
ct 422

<210> 5846

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-056-Q1-K1-F12

<400> 5846

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ctttgtgcaa gtgctgtac cgcaaccatt ttcccacaat gtcacaagc tcctatagct 120
tcttttcttc ccccatacct ctcaccagcg gtgtcttcag tatgtgaaaa cccaattctt 180
caacctaca ggatccaaca ggcaatcgca gcaggcatct tacctttatc acccttggtc 240
ctccaacaac cgtcagccct attacagcag ttaccttggg tgcatttggt ggcacaaaac 300
atcaaggcac aacaactaca acaacttggt ctaggaaacc ttgctgcta ctctcagcaa 360
cagcagtttc ttccattcaa ccaactggct gcattgaact ctgctgctta tttgcaacaa 420
caactaccat tcagtcag 438

<210> 5847

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-056-Q1-K1-F9

<400> 5847

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tgagtgttgg ttgtctgtgt gcaggcgtgg acatgtatga ctagcatcct aggtttcaat 120
cctagattaa tatgataatt ttattctttt tatataaaaa aaataacctc tgactaccac 180

aaagcaatta cttacattaa accaaatagc aaaatagaac aaaa

224

<210> 5848

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-056-Q1-K1-H7

<400> 5848

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tgaccaggaa gaaggcaacg aagccgtcca gcagtgggag gatgattggg atgacgatga 180
cgtgaacgat gattttctcg tgcagcttaa ggaagagctg gacggaagca acggccagaa 240
gagctgaagt attatttctc tactttatat aaatgatttt tatatggcag ctacttttgg 300
aaccgttgat gtgctttgga tgtgaaagtt tttggacatc agtcggcaca gaaaactacc 360
aact 364

<210> 5849

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-057-Q1-K1-A7

<400> 5849

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tgcgagggga tgcagtcctg aataaactac tgtaattgct aggctgatga acgtcgatgc 120
gctagtataa ctactactac tacgaggcta tctgcgcgct gaacacagcg ctgataagta 180
gcgtcgggtg gctaaattca gaatgagtaa gtataatcta tgctattacc agctaaccaa 240
agcaatcaaa g 251

<210> 5850

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-057-Q1-K1-A8

<400> 5850

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gtgcatgcct gaatagacta cggtaattgc caggctgctg atcgctgatg cgctagtata 120
actactacta ctacgaggct agctgcgcgc tgaacacagc gctgtaaagt agcgtcagtg 180
tgctaaattc agaatgtgta agtttaattt atgcgattac cagttaacca aaaaaataaa 240

<210> 5851

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-057-Q1-K1-C1

<400> 5851

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cattatcccg ccttgcgctt cttgcccttt gtgtgagtgc aacaaatgcg ttcattattc 120
cacaatgctc acttgctccg agtgccatta ttccacagtt cctccctcca gttacttcaa 180
tgggcttcga acaccagct gtgcaagcct ataggctaca acaagcgctt gcggcgagcg 240
tcttagaaca accaattgcc caattacaac aacaatcctt ggcacatcta accatacaaa 300
ccatcgcaac gcagcagcaa caagcactga gccacctatc cgtggtgaac cctatcgntc 360
acttgcaaca acagctgctt gcatccaacc cacttgcttt ggcaaacgta gctgcatacc 420
aacaacaaca aca 433

<210> 5852

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-057-Q1-K1-C8

<400> 5852

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acaacaattg ttgccctttg tccaacttgc tttgacaaac ccagcagcct cctaccaaca 120
acacatcatt ggtggtgccc tcttttagat tgcttattag ttgtaattca ataataaagt 180

tttttggatg atgtatgtgg ccaaccagaa ataagaagtt acatttccag attcaaaaaa 240
 acaaat 246

<210> 5853
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-057-Q1-K1-H6
 <400> 5853

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 catgtgcata actaccgaa gaatcagaaa catataaaac tccaagatca tgctcttccg 180
 gcaagcctcc agtagttggt gaggatgatg aagcttatga gatactcttc tgcgtgtatg 240
 gatgcccatc actaaatata gaagctttct tgccactttg agagaaatga cggcatcggt 300
 ctggacgaat ggcgagctcg acgatctaga gtcagatctg gtggggaaga agtctggctg 360
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 ggagttttt 429

<210> 5854
 <211> 626
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-A10
 <400> 5854

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 gctcctatag ctctccttct tccccatac ctctcaccag cgggtgtctt aatgtgtgaa 180
 accccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240
 tcacccttgt tctccaaca accgtcagcc ctattacagc agttacctt ggtccatttg 300
 gtggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgca 360
 tactctcagc aacatcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420

tatttgcaac aacaattacc attcagccag ctagttgctg cctacccccca gcaatttctt 480
ccattcaacc aactagcagc attgaactct gctgcttatt tacagcagca acaactacta 540
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ccgttctacc tgcacgctat gcctaa 626

<210> 5855
<211> 640
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-059-P1-K6-A11

<400> 5855

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caacatcaat tatctaactc caaaaccatg aagctggtgc ttgtggttct tgctttcatt 120
gcttttagtat caagtgttct ttgtacacag acaggcggct gcagctgtgg tcaacaacaa 180
agccatgagc agcaacatca tccacaacaa catcatccac aaaaacaaca acatcaacca 240
ccaccacaac atcaccagca gcagcaacac caacaacaac aagttcacat gcaaccacaa 300
aaacatcagc aacaacaaga agttcatggt caacaacaac aacaacaacc gcagcaccac 360
caccaacaac aacaacaaca gcaccaacaa caacatcaat gtgaaggcca acaacaacat 420
caccaacaat cacaaggcca tgtgcaacaa cacgaacaga gccatgagca acaccaagga 480
cagagccatg agcaacaaca tcaacaacaa ttccagggtc atgacaagca gcaacaacca 540
caacagcctc agcaatatca gcagggccag gaaaaatcac aacagcaaca atgtcattgc 600
caggagcagc aacagactac aaggtgcagc tataactact 640

<210> 5856
<211> 617
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-059-P1-K6-A5

<400> 5856

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atccttatgc tccttgctct ttctgcatgt gttgctaacg cgaccatttt tcttcaatac 120
tcacaagctc ctatagctgc ctttcttccc ccataccttc catcaatgac cgcttttagta 180
tgtgaaaacc cagcccttca accctacagg atccagcaag caatcgcaac aagcaactta 240
cctttatcac acctgttctt tcaacaatcg ccagccctat ctttgggtgca gtcattggta 300
caaaccatca gggcagaaca gttgcagcaa ctcgtgctac cagtgatcag ccaagtagct 360
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actgcctact ctcagcagca acaatttctt ccatttaacc aattggccgc actgaacccc 540
tctgcttatt tccagcagca aatactacta ccatttggcc agctagctac aacaagcccc 600
gcttccttct tgacaca 617

<210> 5857

<211> 553

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-A6

<400> 5857

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gcagtagtac tacgggcgcg gcccgtgca gatctcgtgg aactacaact acgggcccgc 120
ggggagggcc atcggttcg acgggctcgg ggaccccgcc aggggtggcg gggacgccgt 180
ggtggcgctt aaggcggcg tctggttctg gatgaacagc gtgcacgggg tggtgccgca 240
ggggttcggc gccaccacca gggccatcaa cggcgcctc gagtgcgcg ggaacaaccc 300
cgcccagatg aacgcgcgcg tcggctacta caggcagtag tgccgccagc tcggcgtcga 360
ccccggggcc aacctcacct gctaggctag gcggcatcgg cggacggcgg gggccttcag 420
gccttgctgc cggcgtcgca tcgcaccctc gcgcgcgaaa ccgagcaata gtgacaataa 480
aacgccgggg ctagctgagc ctgtttgttc gacctgaata atgaagcagc tgtgatatgc 540
atgttgtttc gac 553

<210> 5858

<211> 619

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-A7

<400> 5858

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cacaagctcc tatagcttcc cttcttcccc catacctctc accagcgggtg tcttcaatgt 180
gtgaaacccc aattgttcaa ccctacagga tccaacaggc aatcgcaaca ggcattcttac 240
cattatcacc cttgttcctc caacaaccgt cagccctatt acagcagtta cctttgggtcc 300
atttggtggc acaaaacatc agggcacaac aactacaaca acttggtgta gcaaacccttg 360
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ctgcttattt gcaacaacaa ttaccattca gccagctagt tgctgcctac cccagcaat 480
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tgttgccgtt ctacctgca 619
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<210> 5859
 <211> 617
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-A8

<400> 5859

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cacttgctcc tagtgccatt attccacagt tcctcccacc agttacttca atgggcttcg 180
aacatccagc cgtgcaagcc tacaggctac aactagcgtg tgccggcgagc gccttacaac 240
aaccaattgc ccaattgcaa caacaatcct tggcacatct aaccctacaa accattgcaa 300
cgcaacaaca acaacaacaa cagtttctgc catcactgag ccacctagcc gtggtgaacc 360
ctgtcaccta cttgcaacag cagctgcttg catccaaccc acttgctctg gcgaacgtag 420
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ctgcatacca gcaacaacaa cagctgcaac agtttatgcc agtgctcagt caactagcca 480
 tggatgaacc tgccgtctac ctacaactac tttcatctag cccgctcgcg gtgggcaatg 540
 cacctacgta cctacaacaa cagttgctgc aacaaattgt accagctctg actcagctag 600
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<210> 5860
 <211> 631
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-B1

<400> 5860

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 tcacaacaat acctctctcc agtgatagcc gcgagatttg aatacccatc tatacaatcc 180
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 gctgcttact tgcaggcaca acagctacta ccattcaacc aacttgctgg gagccctgct 480
 gccatcttat tgcagcaaca gttgctgcca ttccgtctac aagttgttgc aaacattgct 540
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<210> 5861
 <211> 639
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-B12

<400> 5861

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 ttgtgtgagt aatttgagct ggcagttgct ctatttgag atctgtatct cactaaatc 180
 tacgaagtag tagatgcata gataaactta agctgtcata gaaagtcatt taaaacatgg 240
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 cctgtacctt ctctgtgta ctgtagagta actgatttta ggtctttttg tttgaggact 480
 aatcttttagt tgctgtttag gggtagcttt ggaactttat ttttcaaag gatttctatt 540
 tttttaagg aaaatgaact aattttcttt tgaataattt tcttttgaaa aatgagaacc 600
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<210> 5862

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-B2

<400> 5862

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 tgacacaacc acaattgttg ccgttctacc agcacgctgc gcctaacgct ggcaccctct 240
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 accaacaacc catcattggg ggtgccctct tttagatttc ttatgagtta tagttcaata 360
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<210> 5863

<211> 82

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-B3

<400> 5863

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<210> 5864

<211> 630

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-B4

<400> 5864

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gggggcagct tcgtcatttc cggcgccttc ctcctttcct ttatctctct ccccacgccc 180
ccacgtttcg cccccattt cgaagccac cgaattccct gcgattcctc tcccctcgcc 240
tcctcgtctc cccctagggg atcgtcggag aggaatcgca aagagggccg tctcatccga 300
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atcgtgaacg gcagcgacgc cgtcatggag ccggttggtg ctggcagcaa cacggtagta 540
gctgttgccc aagttgagtt gcaaacaatg aacgtgcagc agcccgtga tggtgccgga 600
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<210> 5865

<211> 632

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-B5

<400> 5865

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caagctccta tagcttccct tcttccccca tacctctcac cagcgggtgtc ttcaatgtgt 180
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 ttatcacctt tgttctctca acaaccgtca gccctattac agcagttacc tttgggtccat 300
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 cttccattca accaactagc agcattgaac tctgctgctt atttacagca gcaacaacta 540
 ctaccattca gccagctagc tgatgtgagc cctgctgcct tcttgacaca acaacagttg 600
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<210> 5866
 <211> 614
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-059-P1-K6-B6
 <400> 5866

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 agtaaaacaa ggcgggcacac agatggagcc tctgggttag aagcaaagtc tcgtggttgg 180
 aaggatgata aaagaccacg ggcaggggca ggggcaccgg cgaacggggt gcaggcagcg 240
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 gcgctgcca cagggggcat ggagttgatc ttggtgaagg tgcgcacctt gaaggtggcg 360
 ccgcacatgg cgccctcgct gtcgacgcgc ggcattggcct tgagcctgtt catgggggtgc 420
 tcgaagctct tgagccctcc gtcgctgtgg aacatgcagc ccgcggggaa gggcgcgtag 480
 gacttgccgc agccgcgctt gaccaggtcc cggtcgtcgc tgatcaccgc ggaccgcgtc 540
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 gcgaaagagg cgcc 614

<210> 5867
 <211> 624

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-B8

<400> 5867

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tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg tattgtgaaa acccaattct 180
tcaaccctac aggatccaac aggcaatcgc agctggcatc ttacctttat cacccttggt 240
cctccaacaa tcatcagccc tattacagca gttacctttg gtgcatttat tggcacaaaa 300
catcagggca caacaactac aacaacttgt gctagcaaac ctgctgcct actctcagca 360
acagcagttt cttccattca accaactagc tgcattgaac tctgcttctt atttgcaaca 420
acaacaacta ccattcagcc agctacctgt tgctacccc caacaatttc ttccattcaa 480
ccaactggca gcattgaact ctctgctta ttacagcag caacaactac taccattcag 540
ccagctagct ggtgtgagcc ctgctacctt ctgacacaa ccacagttgt tgccgttcta 600
ccagcacgct ggcgctaacg ctgg 624

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<210> 5868
 <211> 634
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-B9

<400> 5868

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attgattaat gagagacaca gacgttaca tatatagggg tgaggagatc ttgggcaaaa 180
ggaaacacat agacaagatc tcctcaaaga tggaaacacc cagtcaggat ttctcaggat 240
ttctatacta aggaaactcc aatcaggat catatacaaa gcaagccctc aatcaggatc 300
atatacaaag caagccctca atcaggatct cactaaccat aatactctac actgcctact 360
aggccggctg gctatagagc cacgcgcagg tcctgtatat ggtagggaat cagctgtcta 420

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acatataggc tattgatttc tgttccatcc atcttggtca atattttcca ggatcaactg 480
gctgctcaga tgcccagttc tcagtgcagc acttattccg taagttggga aatgatgaat 540
tcattggtca gcgggtaatc cttgtagttt ctcaaaagaa tccaacgtat ctgaaagatg 600
ttcttggtcg atccgtttgc tgatgcttcc cctg 634

<210> 5869

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-K6-C10

<400> 5869

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ctgcattgaa ctctgctgct tatttgcaac aacaattacc attcagccag ctagtgtgtg 120
cctacccccca gcaatttctt ccattcaacc aactagcagc attgaactct gctgcttatt 180
tacagcagca acaactacta ccattcagcc agctagctga tgtgagccct gctgccttct 240
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tacaactgca acaattgctg ccattcaacc aacttgcttt gacaaactca acagtgttct 360
accaacaacc catcattggt ggtgccctct tttagattgc ttatgagtta tagttcaata 420
atgaagtttt ttggatgatg tttgtggcgt cccagaaata agaaagtaca tttctagatt 480

<210> 5870

<211> 492

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-C11

<400> 5870

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tggcagaggt tcctgattgc atgctaccat ggagtcgaaa aagcaatgga taacatgtgg 120
cacagcattt gatccggtcc cctgcgcctt ggtctgacat ggaattttac cttctttgtc 180
tgagcactat aatatttttag tcctttcata tcattggcct atcttttagat ctttctatgt 240

tgttgtagaca agttctgcga aaacgcatta ctgtgggttg ctttgataa cgccgccgaa 300
 acaatcgaac ggtttccttt atcacctgct gttctgttaa gtttgaatc tttctgaacg 360
 tgcagttacc tgcccagagc tgagttcatt atacaataaa taccgggatg ttaatgtttg 420
 gactctggtg catggagatg cagtgggtgct tgttattacc atgaaaataa tgtttttaat 480
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<210> 5871

<211> 651

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-C12

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 ccaagnaatt ttccatcctt atgctccttg ctctttctgc atgtgttgct aacgcgacca 120
 tttttcctca atactcaca gtcctatag ctgcccttct tccccatac cttccatcaa 180
 tgaccgcttc agtttgtaga aaccagccc ttcaacccta caggctcaa caagcaatcg 240
 caacaagcaa cttaccttta tccccctgt tctttcaaca atcgccagcc ctatctttgg 300
 tgcagtcatt ggtacaaacc atcagggcac aacagctgca acaactcgtg ctaccagtga 360
 tcagccaagt agctctggca aacctttctc ctactctca gcaacaaca tttcttccat 420
 tcaaccaact gtctacactg aacctgctg cttatttaca acaacaaca ctactaccat 480
 tcagccagct agctactgcc tactctcagc agcaacaatt tcttccattt aaccaattgg 540
 cgcactgaa cccctctgct tatttccagc agcaataact actaccattt ggccagctag 600
 ctacaacaag cccacttcc tttttgaaac aacaacaatt gcttccgttc t 651

<210> 5872

<211> 637

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-C2

<400> 5872

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ctctacatct gatccagcta agtagctagc cagcactaca gaagggcgtg gcaagaatca 180
ggagagagat agcagggggg ctagctagct gagctcgtgc gacgaagaag gccggaattg 240
gcaggaacat ggtggcgccg ctectgggtgc tcaacctcat catgtacatc atcgtcacgc 300
gcttcgcgag ctggaacctg aaccacttca tcaacgggca gaccaactac cccggcgtgg 360
ccggcaacgg cgcgacgttc tacttctctgg tgttcgccat cctggccggc gtggtggggc 420
cggcgtccaa gctggcgggc gtgcaccacg tgcgcgcctg gcgccacgac agcctggcca 480
ccaacgcccgc gtcgtcgttc atcgctggg ccatcacggc gctcgccttc gggctggcct 540
gcaaggagat ccacatcggc ggacaccgog gctggcgccct gcgcgtgctg gaggccttcg 600
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<210> 5873

<211> 633

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-C3

<400> 5873

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tctttctgca agtgctgcta cggcgaccat tttcccacaa tgctcacaag ctctatagc 120
ttcccttctt cccccgtacc tctcaccagc ggtgtcttcg gtattgtgaa aaccaattc 180
ttcaacccta taggatccaa caggcaatcg cagctggcat cttaccttta tcacccttgt 240
tcctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta ttggcacaaa 300
acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc tactctcagc 360
aacaacagtt tcttccattc aaccaactag ctgcattgaa ctctgcttct tatttgcaac 420
aacaacaact accattcagc cagctatctg ctgcctaccc ccagcaattt cttccattca 480
accaactgac agctttgaac tctctgctt atttacagca gcaacaacta ctaccattca 540
gccagctagn ctgggtgtgag ccctgctacc ttcttgacac anaccacaat tgttgccgtt 600
ctaccagcac gctgcgccta acgctggcac cct 633

<210> 5874
 <211> 618
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-059-P1-K6-C5

 <400> 5874

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caagcaatta gttcatgcgc ttattaggtt gtgccactgg ccaccactac actacattac 180
actagcacia gcaagcagct acacatactt gtccatatca cataaacgaa acagcatata 240
taagaagatg tccaacatc tttgcaccac gcgcgagatc agggggcctg caggccgaac 300
tcttcagggc gcggccacgt tctccttggc gagcggcgcg atctcctcgc cttcgacccc 360
tggtcgcgcg ccggcgaccc cgaggctgag cagcacgttc tcccagttct tggcagggcc 420
cttcaggag agatcctgga tcatgcagtt cctcaccatc tctcgtacg ccggcgtgcc 480
gaccaccttg atggcgcgct gcaatgtggt ggccaccttc ttgacgtccg ccggctccac 540
gacgttacag tcgacgtga ggcggcccat gtggaaccgc gtcttgctt cgatgatggt 600
gtcgacgagt ccaccggt 618
  
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<210> 5875
 <211> 592
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-C6

 <400> 5875

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tgccagacac caccgtttca tctaccgct ccgtttctata tgccgcctcc gttctatctg 180
ccgccgcagc agcagccgca gccatggcaa taccacctc aaccaccgca gctaagcccc 240
tgccagcagt tcggatcctg cggcgtcggc agcgtcggca gcccgttcct gggccagtgc 300
  
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gtcgagttcc tgaggcacca gtgcagcccg gcggcgacgc cctacggctc gccacagtgc 360
caggcgctgc agcagcagtg ctgccaccag atcaggcagg tggagccgct gcaccggtag 420
caggcgacat acggtgtggt cctgcagtcc ttcctgcagc agcagccgca gggcgagctc 480
gcggcgcttg aggcggccca agtagcgagc cagctgacgn cgatgtgcgg tctgcagctg 540
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<210> 5876

<211> 619

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-C7

<400> 5876

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cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180
gcttcagtat gtgaaaaacc cagctcttca gccttatagg ctccaacaag caatcgagc 240
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gtcattggta caaaccatca gggcacagca gctgcagcaa ctctgtgtac ctgtgatcaa 360
ccaagtagct ctggcaaacc tttctcccta ctctcagcaa caacaatttc ttccattcaa 420
ccaactgtct aactgaacc ctgctgctta tttgcagcaa caactattac cattcagcca 480
gctagctact gcctactctc agcaacaaca acttcttcca ttttaaccaat tggccgcact 540
gaaccccgct gcttatttgc agcagcaaat actactacca tttagccagc tagctgcagc 600
aaacogtget tccttcttg 619

<210> 5877

<211> 616

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-D1

<400> 5877

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 gatcagtgtg catggagggt aaaaccattt attcatatat tcagagccgt tattacaggt 120
 ctccagaagt acttcttggg tatccatata ctactgccat tgatatgtgg tcattcgggt 180
 gcatcgttgc tgagctatat atagggctgc ctttatttcc tgggtcatca gaatatgatg 240
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 ctaaaaacac tgggaaattt tttaagcatg ttggaagtat ctatcctagt agtgaggctc 360
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 atacataccc ctggaagaat ttgagcgagg gaaacttgcc agagacagaa aaggctgatt 540
 gcttggcatt agttgatttn ttgagaggac ttgttgagtt tgatcctaata aagaggtgg 600
 caccgttgca ggcctc 616

<210> 5878

<211> 649

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-K6-D10

<400> 5878

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 tctgggtgagc ggtatcactg gtggctcttc tcttgcagtg ttcaatgctg cacggctcat 120
 gtctaccaag ctatttattg gtggctctga ctgggggtgt gatgacgtga aactaagaga 180
 agcatttagc agctttggag aggttactga agcgaggggtg atcacagaca gggagactgg 240
 gaggtcaaga ggctttggct ttgtgaacta ctccgacagt gatgctgcc aaggaagctat 300
 ttctgcaatg gatggcaagg aaattgatgg gcggcaggta cgtgtcaaca tggctaata 360
 gagacctgct gggaaccgtg gtgggtgggtg ctatggcggc ggaggctatg gaggtgggtg 420
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 actttaggac ttggtatgac gttttatgtt aagcgttgct aggttttgct attcgtgtta 600
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<210> 5879
 <211> 614
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-059-P1-K6-D2

<400> 5879

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ctttcttggg catggtccag tgatcgatcc atccacacgc gtatcccaag cattattcct  180
cccggatgat actactctat cctcctcttg ccgatggctt cttttcttcc tctcgttctg  240
gacatttgta tctacctacc tgtcgccctc atgctcgcgt ccatatatct gatctactcc  300
acaaatccta aaaccacaac aactatcccc ctctcctctc tattctccgg cgattctcca  360
tattcttcat gcaggtcgta gccacacctc gatccatgtc gtgtcgtcgt cgctgttgcc  420
caccctccta tttctccatt cgttgcgtgc ctagttacag tggtcgccct cttagatgtt  480
acagtaaaaa aaaattgggtg gtgatatggt tatttattga ttcgtagggg taattaataa  540
gaaccctcaa aagcttgggg tcttcacgga gtggttgaat cgatgcgggtg aaaacgcacg  600
tgaagggtaa taag                                     614
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<210> 5880
 <211> 633
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-D3

<400> 5880

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tcagagcgta ttccttcggg gnaaatcatg tcgttggaag atctgtttgc acgagcttca  180
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aggctcctgg agagaggccc tctggattac cagcgggtgg ttcttctgat gcttaaactg  300
ctgctgcagc aaaccctgt ggatccgtca cagatacccc aggtgtacaa ctctgtgtcg  360
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cagctggtgg agagcacatt atgctcggag gcgctgaatg tgctggaggc gctgctgcgg 420
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agcggggaga aggtcctcca gagcatgctg ctctctcagt cgtctttcag gcaaggagtg 540
ggccgctgca gtaccgctgc ggggtcgggt tggggtcctt gatggggcaa ggcggcgggtg 600
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<210> 5881

<211> 625

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-D4

<400> 5881

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cctatagctt cccttcttcc ccgctacctc tcaccagcgg tgtcttcggg attgtgaaaa 180
cccaattctt caaccctaca ggatccaaca ggcaatcaca gctggcatct tacctttatc 240
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ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta 360
ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta 420
tttgcaacaa caacaactac cattcagcca gctacctgct gctaccccc agcaatttct 480
tccattcaac caactggcag cattgaactc tcctgcttat ttacagcagc aacaactact 540
accattcagc cagctagctg gtgtgagccc tgctaccttc ttgatacaac cacagttggt 600
gcggttctac cagcacgctg cgcct 625

<210> 5882

<211> 647

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-D6

<400> 5882

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 atgctcaciaa gctcctatag ctcccttctt tccccgtac ctctcaccag cgggtgtcttc 180
 ggtattgtga aaacccaatt ctccaaccct ataggatcca acaggcaatc gcagctggca 240
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 cccagcaatt tcttccattc aaccaactga cagctttgaa ctctcctgct tatttacagc 540
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 aaccacaatt gttgccgttc taccagcacg ctgcgcctaa cgctggc 647

<210> 5883
 <211> 591
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-D7

 <400> 5883

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 gcaacccggn tgtcgatagc cagtacttgg cggagctgct ggcggaacac cagaagctgg 180
 ggccgttcat gcaggtgctg cccatatgca acaagctgct gagccaagan aatatgcggg 240
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 caccaccaag tcttagcacc caagttgtga agaagattct tcgtctggag gttccgggtg 480
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<210> 5884
 <211> 629
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-D8

<400> 5884

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cccttcttcc cccgtacctc tcaccagcgg tgtcttcggg atgtgaaaac ccaattcttc 180
aacctacag gatccaacag gcaatcacag ctggcatctt acctttatca cccttggttc 240
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tcagggcaca acaactacaa caacttggtc tagcaaacct tgctgcctac tctcagcaac 360
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aactggcagc attgaactct cctgcttatt tacagcagca acaactacta ccattcagcc 540
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<210> 5885
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-D9

<400> 5885

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ctctgactca actagctgtg gcaaaccctg ttgcctactt gcaacagctg cttccattca 180
accaactgac tctgtcgaac tctgctgcgt acctacaaca gcgacaacag ttacttaatc 240
cattggtagt ggctaacca ttggctgcgg ccttcctaca gcagcaacaa ttgctgccat 300
  
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acaaccagtt ctctttgatg aatcctgtct tgtcgaggca gcaaccatc gttggagggtg 360
ccatctttta gattacatat gagatgtact cgataatggg gccctcatac cgacgtgtgt 420
ttcctagaaa taatcaatat attgattgag attt 454

<210> 5886
<211> 623
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-059-P1-K6-E1

<400> 5886

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tttttctca atactcaca gctcctatag ctgccttct tccccatac cttccatcaa 180
tgaccgcttc agtttgtgaa aaccagccc ttcaacccta caggctccaa caagcaatcg 240
caacaagcaa cttaccttta tcacctgt tctttcaaca atcgccagcc ctatctttgg 300
tgcagtcatt ggtacaaacc atcagggcac aacagctgca acaactcgtg ctaccagtga 360
tcagccaagt agctctggca aacctttct cctactctca gcaacaacaa tttcttccat 420
tcaatcaact gtctacactg aaccctgctg cttatttaca acaacaacaa ctactaccat 480
tcagccagct agctactgcc tactctcagc agcaacaatt tctttcattt aaccaattgg 540
ccggactgaa cccctctgct tatttncagc agcaaatact actaccattt ggccagctag 600
ctacaacaag cccacttcc ttt 623

<210> 5887
<211> 620
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-059-P1-K6-E10

<400> 5887

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ggagtcaatc agatctgctg caactggaaa gcttcgtgtg gtggaagaga acttatgcag 120

caaatgctca acttttactg gacgaagctg cttcctgggc acttcttttg cacatatatg 180
 gcaaagaaca tgaggagctt tctggagagc tgttggtgcc gccattaca tctcatcagg 240
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 ggcttgaagg tcttgcttct gaagctcttg atttggagaa gaaggtgaga ggacctcatg 360
 ttggttcgta cctaccaagt tctggtgttt ggcaccgtac acagaggtag ctaaaaagga 420
 acaatgctga ttctactata gtgaagcatg tggattttga tgctccaact cgtgaagggg 480
 cccaacttct tctgatgac aagaagcaag atgaattgct tctagaagat atatggactc 540
 ttttaagagc aggaagatta gaagaggcat ctgacttgtg ccgttctgct ggccaggcat 600
 ggagagttgc cactctttgt 620

<210> 5888
 <211> 630
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-E11

 <400> 5888

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 catcccctgt cagagcaacg agttcgtcca ggagctgctc cgcgggtgtcc gcctccactt 180
 cgaccgtttc atcaacgagc ttaaggattc tgacttggag aaggcccaac ttggcctggg 240
 gcatagctac agcagggcta aggtgaagtt caatgtgaat cgtgttgata acatggtgat 300
 ccaagcaata tttctgctgg atacacttga caaggacatc aattccttct ccatgagagt 360
 cagggaatgg ttctcatggc acttccttga gcttgtcaag attgtgaatg acaattacct 420
 ttatgccaaag cttgctaagt ttattgtgaa caaatctgat ttggcggaaa aagattccca 480
 gctttggctg atatagttgg tgatgaggac aaggctaaag aaattgttga agcagcaaag 540
 gcttcaatgg gccaggatct gtcaccagtt gatttgatca atgtccagca atttgcccaa 600
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<210> 5889
 <211> 558

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-E12
 <400> 5889

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 gccaaagtaat tttccatcct tatgctcctt gctctttctg catgtgttgc taacgcgacc 120
 atttttcctc aatactcaca agtcctata gctgcccttc ttccccata cctgccatga 180
 gatgaccgct tcagtttgtg aaaaccagc ccttcaacc tacaggctcc aacaagcaat 240
 cgcaacaagc aacttacctt tatcaccct gttctttcaa caatcatcag ccctatcttt 300
 ggtgcagaca ttggtacaaa ccatcagggc acaacagctg caacaactcg tgctaccagt 360
 gatcagccaa gtagctctgg caaacctttt tnccttactct cagcaacaac aatttcttcc 420
 attcaaccaa ctgtctacac tgaaccctgc tgcttattta caacaacaac aactactacc 480
 attcacgccg ctagctactg cctactctca acatcaacaa tctcttccat ctaaaatatt 540
 gcaccactt taaccct 558

<210> 5890
 <211> 624
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-E2
 <400> 5890

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 gatccttgaa gtccggacac tacattgct acgttagagc aagaaacttg gatgtcagca 180
 agaggaggcc tcatggtttt gtgcagacga cagtcagatc agacgagtca ctattgaaca 240
 agttctcaac agtcaggcct atattctttt ctatgagagg atggaagacc aggacgtttc 300
 tggcatgaca cgtcagaact gaagaatgca gtgatagaac aagcagatga gtgagataag 360
 cagaccttct ctctcgaccg caaggatcta gtctagtcag tgttcatagt aagacaggct 420
 cttgaccaag ctcatTTTTG tcgctgggct tgaaacttac tctgtaactt tgtaccaa 480

cggaggttct ttctgatctt gtcaactcag ctgatctggt ctttccgttg cttcgcattt 540
 gaggatgaaa ctgtgaatag aatagtgggtg agatcgggtga tacgggcttt gtaaagtttc 600
 tgtcggatga tattgttaca tgat 624

<210> 5891
 <211> 631
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-E3
 <400> 5891

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 cgacgacgac gaggcgaaga ggagggaggc agagcttgcg tcaagcaggc tctcgcaccc 120
 ggggttcaag ccctccaaac tatcccagga ccggctcgac aagtttaagg aattacacaa 180
 gaaacgggta cagataactg aaaagccgaa gtataaaaga aaaccgaaag gaaccactga 240
 gagaagtatc aaagtaacca gcaattataa attcactgat aaggatgcat ctgctgatag 300
 ttctccaaga gatgtgcatc atatgtcatc agttacagga attcaagggg atcctgcatc 360
 aggctgtgcc tcgaggaaca aaaggaaact acattggggg cttgacatta aagaacgatg 420
 ggaaagaaag gcaaacatgt aaaanatatc tgaagatcca acaacaaaag catatccaca 480
 ccgcactcat ttgaaatttg aaagctgagg gacaaaacaa agcggccgac cttttccacg 540
 gatcatcatg ttgctggtaa aggtttgtca gctagcagaa ctgatcagta agctagtatc 600
 taatttttca gtgttttgtc taacgttttc t 631

<210> 5892
 <211> 629
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-E4
 <400> 5892

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 agtacaaata tgtattcttt agatactgaa atgccaagtg atacccgaga gtcacaggc 120

ccagaggaaa gttgcctgcc tgaaactgaa gaggatgctt acgccatcaa tcagtgcaat 180
aaaggtagtg ctcgagaaca ttcaagtgat gagaacaact ttgatgatat tcaaatagcag 240
tctgaaatag ttcagggttt agctgaggaa aacagattgg acgattgttg catgtctgcc 300
atctctgagg aggatgtggt gatttctgga cgagaagccg acataaggga acttccgaac 360
gatgaagaat tttgtgcgga ggtagaagga tcaaggaaac aaatccaaag atgcttcaca 420
ttggaagaag ctgctgatac aattctcttc tgtagtctta ttgtccacga ccttgcatat 480
aaggctgcga ctattgcatt ggaaaatgag aaggaatcag agtttgttga ccctattcgc 540
ccaactgtta gaatagtgtg aggatctttt tctaaggatg agagtttacc aaagctgact 600
cacagacgaa ctccaaatcg taagggtcaa 629

<210> 5893
<211> 604
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-059-P1-K6-E8
<400> 5893

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gccctttttg tgagcgcaac aaatgcgttc attattccac aatgctcact tgctcctagt 120
gccattattc cacagttcct cctccattc ttcaagggtc tcgaacaccc agctgtgcaa 180
gcctacaggc tacaacaagc gcttgcgcg agcgtcttac aacaaccaat tgcccaatta 240
caacaacaat ccttggcaca tctaaccata caaaccatcg caacgcaaca gcaacaaca 300
tttctaccag cactgagcca actagctgtg gtgaaccctg tcgctactt gcaacagcag 360
ttgcttgcat ccaaccact tgctctggca aacatagttg cataccaaca acaacaaca 420
ttgcaacagt ttctaccagc gctcagtcaa ctagccatgg tgaaccctgc cgctaccta 480
caacagcaac aactgatttc atctagccct ctcgctgtgg ttaatgcacc tacatacctg 540
caacaacagt tgctgcaaca gattgtacca gctctgactc agctagctgt ggcaaaccct 600
gctg 604

<210> 5894

<211> 283
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-059-P1-K6-E9

 <400> 5894

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 tacttaatcc attggcagtg gctaaccocat tggtcgctgc cttcctacag cagcaacaat 120
 tgctgccata caaccggttc tctttgatga atcctgtctt gtcgaggcag caaccatcg 180
 ttggaggtgc catcttttag attacatatg agatgtactc gataatgggtg ccctcatacc 240
 ggcatgtgtt tcctagaaat aatcaatata ttggttgaga ttt 283

<210> 5895
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-F1

 <400> 5895

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 ctagactcta natacatncc agggggaagc gagcagatcg atggcgatgg ctgagaaggt 120
 gaaggagaag agctgatgct ccgcagnagc gacaaccagg agttggaggt gaaggagttg 180
 gtgngatgc aatngatgac catgaagaaa atggttgagg acggatgtgc cgacaaagga 240
 attatgttta tcaaagttac ctattacatg cttgtgaagg ttatggagta ttgtaataag 300
 aatgttgag 309

<210> 5896
 <211> 622
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-F10

 <400> 5896

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ggaaaaaacac aacagcaaca atgtcattgc caggagcagc aacagactac aaggtgcagc 120
 tataactact atagcagtag ctcaaata taaaatgtca tgaattccta aggcagcagt 180
 gcagcccttt ggtaatgcct tttctccaat cacgtttgat acaaccaagt agctgccagg 240
 tattgcagca acaatgttgt catgatctta ggcagattga gccacaatac attaccaag 300
 caatctacaa catggttcaa tccataatcc aggaggagca acaacaacaa ccatgtgagt 360
 tatgtggatc tcaacaagct actcaaagtg cgggtggcaat cttgacagca gcacaatacc 420
 taccatcaat gtgcggcttg taccactcat actacaaaaa taatccatgc agcagcaatg 480
 acattagtgg tgtttgcaat tgaagaattg tgtctaccta gccgttatac tcctataacg 540
 gtgttaagca ataaagtacc atacattatg atgtttgtac tatgatattt gaataagaat 600
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<210> 5897

<211> 636

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-K6-F11

<400> 5897

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 tcattattcc acagtgtca cttgctccta gtgccattat tccacagttc ctcccaccag 180
 ttacttcaat gggcttcgaa catccagccg tgcaagccta caggctacaa ctagcgcttg 240
 cggcgagcgc cttacaacaa ccaattgcc aattgcaaca acaatccttg gcacatctaa 300
 ccctacaaac cattgcaacg caacaacaac aacaacaaca gtttctgcca tcaactgagcc 360
 acctagccgt ggtgaaccct gtcacctact tgcaacagca gctgcttgca tccaaccac 420
 ttgctctggc gaacgtagct gcataccagc aacaacaaca gctgcaacag tttatgccag 480
 tgctcagtca actagccatg gtgaaccctg ccgtctacct acaactactt tcacttagcc 540
 cgctcgcggt gggcaatgca cctacgtacc tacaacaaca gttgctgcaa caaattgtac 600
 cagctctgac tcagctagct gtggcaaacc ctgctg 636

<210> 5898

<211> 636
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-F12

<400> 5898

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tttttctca atactcacia gtccctatag ctgcccttct tccccatac cttccatcaa 180
tgaccgcttc agtttgtgaa aaccagccc ttcaacctta cagggtccaa caagcaatcg 240
caacaagcaa cttaccttta tcacctgtg tttttcaaca atcgccagcc ctatctttgg 300
tgcagtcatt ggtacaaaacc atcagggcac aacagctgca acaactcgtg ctaccagtga 360
tcagccaagt agctctggca aacctttctc cctactctca gcaacaacaa tttcttccat 420
tcaaccaact gtctacactg aacctgtgtg cttatttaca acaacaacaa ctactaccat 480
tcagccagct agctactgcc tactctcagc agcaacaatt ttttccattt aaccaattgg 540
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ctacaacaag cccacttcc ttttttgaaa caacaa 636

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<210> 5899
 <211> 614
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-F2

<400> 5899

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ttgtcccggt gttgtatata aaaacaatga ttcagaaact gatatagttc tgaagggtgt 180
ggtcgggtg acaaatttgg cggatgtgtg tgagcacatt ggtgaagtgc ttaggcgtgt 240
taaaaaggag catctccaaa gagcgtacaa aattcaagat tgggtctgatg ataacgattt 300
tcttgtccag ctgtgcagga cactggaaa acttctcaag ggccggggagc ctgatctgac 360

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aacagcagcc aagatggtac ttcactgactg gcagaggggt aaaatcccct tctttgtacc 420
ccctccgcag caaagcgacg gcggtgcacg tgaaagtgct gaacaaccta ttgggattac 480
caaagaggac ggagtaagca ggcacaggac tgccgcagcc atgaaagcca ttgcaggaat 540
aatctcgtca cagcagaaca tgaatgtgcc ctgccataag gaaaacatgc agacaatgaa 600
gacactgaaa atgc 614

<210> 5900

<211> 280

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-F3

<400> 5900

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tgagatttat ctcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa accaaaaaaaa aaaaaaaaaa aaaacaaaaa aaaaaaaaaa aggggcgggc 240
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<210> 5901

<211> 625

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-K6-F4

<400> 5901

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tgcgtcggct gcggatgggg cggaggggtga gtgggagccg ctgatacgga tgccgacggc 180
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gtatgatgat attgccaca acattctgaa ccctaggcct ggagttatca ttaaccatcc 420

taaaggagca aatgtttatg atggtgttcc aaaggattac acaggtgatc aggtcactac 480
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<210> 5902

<211> 654

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-F5

<400> 5902

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 aaggagggca ttccccaga ccagcagcgt ctgatctttg cgggcaagca gctggaggat 600
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<210> 5903

<211> 605

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-K6-F6

<400> 5903

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<210> 5904

<211> 581

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-F7

<400> 5904

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ggcaaaccct tctccctact ctcagcaaca acaatttctt ccattcaacc aactgtctac 240
acctgaacc tgctgcttat ttgcagcaac aactattacc attcagccag ctagctactg 300
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ttccttcttg acacagcaac agttgctgcc tttctaccag cagtttgcg ctaacccgcg 480
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<210> 5905

<211> 634

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-F8
 <400> 5905

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acaaaccatc agggcagaac agttgcagca actcgtgcta ccagtgatca gccaaagtagc 360
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<210> 5906
 <211> 631
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-F9

<400> 5906

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ccctatgagt aactgcttca acagtggat aaataagata tttgtgatga gtcagttcaa 360
ttctacttcg cttaaccgcc atattcatcg tacatacctt gaaggcggga tcaactttgc 420

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tgatggatct gtacaggtat tagcggctac acaaatgcct gaagagccag ctggatgggt 480
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<210> 5907

<211> 628

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-K6-G10

<400> 5907

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cggcgctcggc agcgctcggca gcccgttcct gggccagtgc gtcgagttcc tgaggcacca 180
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taatggagcc gctgactagc tacctagctc gctagtttac tcatttagcg gcgatgagta 540
acgtagtgtc acccatcacc atgggtggca gtgtgagcaa tgacctgaat gaaccattga 600
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<210> 5908

<211> 652

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-G11

<400> 5908

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ccttggttct ccaacaatca tcagccctat tacaacagtt acctttgggtg catttattgg 300
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ctcagcaaca gcagtttctt ccattcaacc aactagggtc attgaactct gcttcttatt 420
tgcaacaaca acaactacca ttcagccagc tacctgctgc ctacccccag caatttcttc 480
cattcaacca actagcagca ttgaactctc ctgcttattt acagcagcaa caactactac 540
cattcagcca gctagctggg gtgagccctg ctaccttctt gacacaacca cagttgttgc 600
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<210> 5909

<211> 623

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-K6-G2

<400> 5909

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ctcgtgctac cagtgatcag ccaagtagct ctggcaaac tttctcccta ctctcagcaa 240
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caacaactac taccattcag ccagctagct actgcctact ctcagcagca acaatttctt 360
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ccgttctacc agcagtttgt ggctaacccc gcaaccctct tacaactgca acagttgctg 540
ccctttgtcc aacttgcttt gacaaacca gcagccttct accaacaaca catcattggc 600
ggtgccatct tttagaatac ata 623

<210> 5910

<211> 651
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-059-P1-K6-G4
 <400> 5910

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taccattcag ccagctagtt gctgcctacc ccagcaatt tcttccattc aaccaactag 480
cagcattgaa ctctgctgct tatttacagc agcaacaact actaccattc agccagctag 540
ctgatgtgag ccctgctgcc ttcttgacac aacaacagtt gttgccgttc tacctgcacg 600
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<210> 5911
 <211> 628
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-G5
 <400> 5911

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tatagcttcc cttcttcccc cgtacctctc accagcgggtg tcttcgggtat tgtgaaaacc 180
caattcttca accctatagg atccaacagg caatcgcagc tggcatctta cctttatcac 240
ccttggttctt ccaacaatca tcagccctat tacagcagtt acctttgggtg catttattgg 300
cacaaaacat cagggcacia caactacaac aacttgtgct agcaaacctt gctgcctact 360
ctcagcaaca acagtttctt ccattcaacc aactagctgc attgaactct gcttcttatt 420
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tgcaacaaca acaactacca ttcagccagc tatctgctgc ctacccccag caattttcttc 480
cattcaacca actgacagct ttgaactctc ctgcttattt acagcagcaa caactactac 540
cattcagcca gctagctggt gtgagccctg ctaccttctt gacacaacca caattgttgc 600
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<210> 5912

<211> 634

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-G6

<400> 5912

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ccgtctcctg cctccactga gtcgcgggcg cgacatcggg gaacgccaag gctgagcttc 180
gcccatagc ctaccgccct gttatgcccc gaaccgcgt gctgaggtcc gccaggccg 240
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ctgctcagtc atggtattgt aagtgtaggt tctcttgtaa taattgcttt aattgtgtat 420
tagtgggtat tgtgaatttc tagggaaaat tatcactaga ttttgaggag aatttactag 480
tgatgtgtgg atctggtgcc tatctagttg taggcttgc atggggcatg gaaattgctt 540
gtagcatgat cacattcagt aactttggtt ttgaatttat tttggttgtt gatgacttaa 600
gaagtaagga ctatggatgc gttctagagg tctg 634

<210> 5913

<211> 582

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-K6-G9

<400> 5913

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 agcaacggga gggccgtggc ggcgtgcgcg ggccacgcgg gcgtgccgga cgaggtggcg 180
 cggcaccacg agcacgcggt ggccgcgggg cagtgtctgt ctgtgatggt gcagtccatc 240
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 aagcgcttca tcaggagctg ccacctgggt gacggcgacg gcgtcaaggt ggggtccgtg 360
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 cgggacgaca agcggcgggt gatcagcttc cggatcctgg gcggcgacca ccgcctcgcc 480
 aactaccgtt ccgtgaccac cgtgcacgag ggggcctcag agggcggggc gctcaccatg 540
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<210> 5914
 <211> 628
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-059-P1-K6-H10
 <400> 5914

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 ttgcaacagc agctgcttgc atccaaccca cttgctctgg cgaacgtage tgcataccag 180
 caacaacaac agctgcaaca gtttatgccg gtgctcagtc aactagccat ggtgaaccct 240
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 gcgtacctac aacagcgaca acagttactt aatccattgg cagtggctaa cccattggtc 480
 gctaccttcc tgcagcagca acaacaattg ctgccatata accagttctc tttgatgaac 540
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<210> 5915
 <211> 637
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-H11

<400> 5915

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cggcggcgcc caccgccact acgggcagca gcagcagcag ggaggaggcg ggcgcccgat 180
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cagcgcaccc cggactacgt ggaggaggcg cgccgcaaga tggcggaggc cgcggcgcaa 540
gcggggcaca agaccgcgca ggcaggccag gccatccagg gcagggcgca ggaggccggc 600
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<210> 5916

<211> 636

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-H12

<400> 5916

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ccagcgccag cgccgggacc tctgcgtgc cggggtgggc catcccgcac aaccgctcc 180
cgagctgccg ctggtacgtg accagccgga cctgcggcat cgggccgcgc ctcccgctggc 240
cggagctgaa gaggagatgc tgccgggagc tggcggacat cccggcgtag tgccggtgca 300
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gccgcctaga ggacctgccg ggctgcccgc gggaggtgca gaggggattc gccgccaccc 420

tcgtcacgga ggccgagtgc aacctggcca ccatcagcgg cgtcgccgaa tgcccctgga 480
 ttctcggcgg cggaacgatg cctccaagt aactgcgaag agcatagtgc atgaggaatg 540
 agcttgtagc tagctcatat gtctgaataa taagcacagc aagaagatga atgcatttct 600
 cggatcggtc atccggaaca ataattaagg gggatc 636

<210> 5917
 <211> 624
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-H2
 <400> 5917

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 gatatatata tgacacatcc gtcgacctca tcagtcatag agcccagcca gccagtcagt 540
 cagtcagcac aagcacaagc accagagatg atgccatcca tgtctgcatg tatgcattta 600
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<210> 5918
 <211> 638
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-H4
 <400> 5918

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 aagcaacata cctttatcac ccttggttgtt tcaacaatcg ccagccctat ctttggtgca 300
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 ccaactgtct aactgaacc ctgctgttta tttgcagcaa caactattac cattcagcca 480
 gctagctact gcctactctc agcaacaaca acttcttcca tttaaccaat tggccgcact 540
 gaaccccgct gcttatttgc agcagcaaact actactacca tttagccagc tagctgcagc 600
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<210> 5919

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-K6-H5

<400> 5919

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<210> 5920

<211> 607

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-K6-H6

<400> 5920

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 caacaacaac taccattcag ccagctagat gctgtctacc tggaaaatct tttgcattca 480
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<210> 5921

<211> 612

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-K6-H7

<400> 5921

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 cttggcacat ctaaccatac aaaccatcgc aacgcaacag caacaacaat ttctaccagc 180
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 tctaccagcg ctcaagtcaac tagccatggt gaacctgcc gctacctac aacagcaaca 360
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 gctgcaacag attgtaccag ctctgactca gctagctgtg gcaaacctg ctgcctactt 480
 gcaacagctg cttccattca accaactgac tgtgtcgaac tctgctgagt acctacaaca 540
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<210> 5922
 <211> 638
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-059-P1-K6-H9

 <400> 5922

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tcccttcttc ccccatacct ctccaccagcg gtgtcttcaa tgtgtgaaac cccaattgtt 180
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atcagggcac aacaactaca acaacttgTg ctagcaaacc ttgctgcata ctctcagcaa 360
catcagtttc ttccattcaa ccaactggct gcattgaact ctgctgctta tttgcaacaa 420
caattacatc tcagccagct agttgctgcc tccccccagc aatttcttcc attcaaccaa 480
ctagcagcat tgaactctgc tgcttattta cagcagcaac aactactacc attcagccag 540
ctagctgatg tgagccctgc tgccttcttg acacaacaac agttgttgcc gttctacctg 600
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<210> 5923
 <211> 544
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-059-P1-N6-A8

 <400> 5923

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tgcaaggcag ggttcatcaa agagaactgg ttgtatggca gcaattgttg ttgctgctgc 180
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tgtaggtacg cagcagagtt tgacacagcc agttggttga atggaagcaa ctgttgtaag 300
  
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taggcagcag ggtttgccac agctagctga gtcagagctg gtacaatttg ttgcagcaac 360
 tgttggtgta ggtacgtagg tgcattgccc accgcgagcg ggctagatga aagtagttgt 420
 aggtagacgg cagggttcac catggctagt tgactgagca ctggcataaa ctggtgcagc 480
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<210> 5924

<211> 544

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-C11

<400> 5924

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 ggaaaaaaaa gcccattgg ttttccaggc cccagagtca aaaaattaac atccgggttt 180
 ttatgggaaa aaaaaccag cttggggcag gaaacggccc gttaaaaaag attacaagct 240
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 aaaccacagt aaggggtttt cgaaaaactt gtcacaacac cataaaagga tctaaagatg 360
 ggccaatggt ttgaaaggcc taaaattttt tggggcccaa aaaaaaagg gaaaattcca 420
 tgtaaaacca aggggcaggg gaccgaaaa aatgctgggc caaatgttat ccatggcctt 480
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<210> 5925

<211> 576

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-C12

<400> 5925

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gctgctgggt ttgtcaaagc aagttggaca aagggcagca actggtgcag ttgtaagagg 180
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 gaagtggggc ttgttgtagc tagctggcca aatggtagta gtatttgctg ctggaaataa 300
 gcagaggggt tcagtgcggc caattggtta aatggaagaa attggtgctg ctgagagtag 360
 gcagtagcta gctggctgaa tggtagtagt tgttgttgtt gtaaataagc agcaggggtc 420
 agtgtagaca gttggttgaa tggaagaaat tgttgttgct gagagtaggg agaaaggttt 480
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<210> . 5926

<211> 500

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-C2

<400> 5926

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 tacaccaacg tacgtagtat acgtggtacg tcaacacaca ccatatatat atatatgggg 180
 tactacttaa ttaaccgtca tcacactcca gcagcgctg atatggtgac acatgtacga 240
 gctgcatcga tcagaatcct cagaccctgg tgacccctt gggctcgccg gccgcgccgc 300
 cgacgccgta gtcgtgggcc cggtagccac cgctgccgcc gaagaggccc gtgtggagca 360
 tgagcacgta gaggagctgc gtgaaggcga ggatgatgac gaagggtcc agcacgcgca 420
 ggcgccagcc ggggtgtccg ccgattgtgg atctccttgc aggccagccc gaaggcagcg 480
 ccgtgatggc ccaggcgatg 500

<210> 5927

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-059-P1-N6-D1

<400> 5927

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 nnnntttttt ttttttttat tnnngggggtt tgtttggaaa aggggtttttt tttttttttt 180
 tgggtttttt tttattttta aaaaaaataa ttgtagaaa aattggaaaa aaaaaaatt 240
 ttttattttt gggggggnaa gaaaaaataa ataaangga ttttttttga aaaaaaaaaa 300
 tggagtttat ttttttgggg ttaggatttt ttngggaaaa aataaaaaaa aaaatttttna 360
 aaaatttttt taaaaatagg gggggggggnn tttttttt 398

<210> 5928

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-D9

<400> 5928

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 gacaagacag gattcatcat agagaactcg gttgtatggc agcaattggt gctgctgtag 180
 gaatgcggcg accaatgggt tagccactac caatggatta agtaactggt gtcgctgttg 240
 taggtacca acaaagtctg acagagtcag ttgggtgaat ggaagcagct gttgcaagta 300
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<210> 5929

<211> 494

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-F12

<400> 5929

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 acggggggcg cgattcatca gccaaaaaac tttttttttg gaattccagc caaaagcctt 180

tctaaaagag ggctccgcca acgaattctt gcagggcaaa aggctgctgg cttttcaaaa 240
 tcatggtgat aaaagggcac taactgaaac agttataaga gggcaggggg atacaccaca 300
 aactgctgga gaaacgaaag caatggctgt ggttccaaaa gggaaggggg gcttgtatta 360
 actggctggc caaaaggag tagtttttgg tgcggaaaat aagcaggggg gttcagggcg 420
 gccaatgggt taaatggaaa aaattgttgc ttgtgaaagt aggcactatc tcgctggcta 480
 aatgggaaaa gttg 494

<210> 5930

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-F3

<400> 5930

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 ttccttaaca aaaccaacc ct 142

<210> 5931

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-F7

<400> 5931

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 tgtcaaagca atttggacaa agggcaacaa ttgtttagt tgtaagagtg ttgcgggggt 180
 agccgcaaac tgctggtaga aaggcagcaa ctgttgctgt gtcaagaagg aagcacggtt 240
 tgctgcagct agctggctaa atggtagtag tatgtgctgc tgcaaataag cagcgggggt 300
 cagtgcggcc aattgggttaa atggaaaaag tttgttggtg ctgagagtag gcagtaccta 360
 gctggctgaa tggtaataag ttgttgctgc aaataagcag cagg 404

<210> 5932
<211> 57
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-059-P1-N6-G10

<400> 5932

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<210> 5933
<211> 516
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-059-P1-N6-G11

<400> 5933

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caattgttgc agttgtaaga ggtgcccagc gttaggcgca acgtgctggt agaacggcaa 180
caactgtggt tgtgtcaaga aggtagcagg gctcacacca gctagctggc tgaatggtag 240
tagttgttgc tgctgtaaata aagcaggaga gttcaatgct gctagttggt tgaatggaag 300
aaattgctgg gggtaggcag caggtagctg gctgaatggt agttgttggt gttgcaaata 360
agaagcagag ttcaatgaac ctagtgtggt gaatggaaga aactgctggt gctgagagta 420
ggcagcaagg tttgctagca caagttgttg tagttgttgt gccctgatgt tttgtgccaa 480
taaatagcanc aaaggttaact gttgtaatag ggctga 516

<210> 5934
<211> 513
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-A3

<400> 5934

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cataaaagtt tccagcgcag agtgcaccag gatacaagct ccgttcaacg gttggccttg 180
gcaacacgct caatctcgtc cttcttcttg atggcgtaac tgttggtatga gcccttggca 240
gcgttgatca gctcatctgc aaggcaactcg gcaatggttt tgatgttccg gaaagcactc 300
tccctggcac cagtgggtgag gaggtagatg gcctgggttca cctcctcag gggtgagata 360
tccacggcct gcctcctcac aacaccagcg gaaccaatac ggggtggcatc ctcacgggggt 420
ccactgttga tgatcgctc gacgacgacc tggatgggggt tggcatcggt gagcaggtga 480
atgatctcca gggatatgctt gatgatgcgg aca 513

<210> 5935

<211> 565

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-A8

<400> 5935

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aaattccttg aggtgaaaag gtcacaaaca tagcagatta ctggagctga tgacctgaca 180
aagttctgca tttggacctt tgctgattcc tcatcttcat tcaatttctt caacagctgg 240
gactttgagg gaagggcgta cattccagca gaaactgctt tccttattgc ccatccatgg 300
tgaggagcaa agacctgagc ataagccacc gatgctgcat cccttagtga gttgccctct 360
gtgacaagaa tttgctcaaa caggacttta accatatcaa tcccgcgctt cactctaagc 420
agattccttg tatggctccc tggtttctctg acagtgtcgg tetgaatgtc tcgctcaacc 480
atagaaggca atgttgaaat tgacttggac gcctccacca aatcatcaac cttggcgacg 540
tagtccatct ccgcgaactt gaaag 565

<210> 5936

<211> 138

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-060-P1-N6-C4

<400> 5936

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 ttattattga actataactc ataagaaatc taaaagaggg caccaccaat gatgngtttg 120
 ttggtagaac gctgctgg 138

<210> 5937
 <211> 139
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-060-P1-N6-D1
 <400> 5937

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 caacagtgtg taaacatgta tcatgacaaa aaacatacta agtattatta aacggcttgc 120
 agtggacagt tataacata 139

<210> 5938
 <211> 460
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-060-P1-N6-D10
 <400> 5938

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 tggcaagcca aggggtgttg aagatctttg cttagcacgc cttctggcac ctgcagtagc 180
 ggaggtggca gtagccggcg gtccaccgc cgtcctcctt gacgcactcg ttgctgcaga 240
 ggcggtcgga gatgcagggg aacgagtggg gctggctctt gcccatgcac acccgggcct 300
 ccgccaccat cgtcgtcgtc gtcccgccgt cgtagtgtga gagcaggagc agcgccagga 360
 ggagcgcgca cacggtcgcc ctggacttga tgagctccat cgccggccgg cgtggatcgg 420
 atcagtgtta ttacggacgg gaccggagac gcgcgcggac 460

<210> 5939
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-D2

<400> 5939

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aatggctggc tgggtttggc aaaagcaagg ttggttgaaa tggcagcaat tggtagcagt 180
tgtaagaaag ggcccagcgt tagggcgcaa cgtgctggta gaaacggcaa caactggtgg 240
gtgtgtcaag aaggtagcag ggctcacacc agctagctgg ctgaatggta gtagttgttg 300
ctgctgtaaa taagcaggag agttcaaagt ctgtcagtggt gttgaatgga agaaattgct 360
gggggtaggc agcagatagc ctgctg 386

<210> 5940

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-D5

<400> 5940

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taaactagcg agctaggtag ctagtcagcg gctccattac attattacta cagtacatag 180
tttctcagt agtagacacc gccggcagct gcgttgcaag ggcagggacc tggctgctgc 240
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agctcgccct gcggctgctg ctgcaggaag gactgcagga ccacaccgta tgcgctctgg 360
taccggtgca gcggctccac ctgcctgac tggtaggcagc actgctgctg cagcgctctg 420
cactgtg 427

<210> 5941

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-D8

<400> 5941

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 tgtctgaata atgggggatt cccaagataa accccaatgc aaataccgac caaaaagggg 180
 cccgaaaaaa agaaccaaaag ccaaattttc tgaggggtgcc aatcccgcga ggataagccc 240
 tgtccccagt gttaaaaaac caaaataggc gcaaactgtg gggcccagat gtccaataac 300
 aaacctgcac aacttttaaa acccctgctt agagaggaaa gtccggagtg tctaaaaagt 360
 gggcgcaaaa aaaaaaaccg aaggtaaatt actgacgggt tgcaaaaccc caagcggggc 420

<210> 5942
 <211> 535
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-060-P1-N6-E1
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 tgagtagctt gttgagatcc acataactca catgggttgtt gttggtgctc ctctgggatt 180
 atggattgaa ccatgttgta gattgcttgg tgaatgtatt gtggctcaat ctgcctaaga 240
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 agaaaaggca ttaccaaaagg gctgcactgc tgccttagga attcatgaca attttttaga 360
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 tgacattggt gctgttggtga ttnttcctgg ccctgctgat attgctgagg ctggtggggg 480
 tgttgctgct tgtcatgacc ctggaattgn tgttgatggt gttgctcatg gctct 535

<210> 5943
 <211> 500
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-060-P1-N6-E5
 <400> 5943

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 tcaatgggaa tagaatggcg tcttgcatth gcacttctcg aaggaaccaa aaccaatacg 120
 taaggttctg catctaggag ttccaacaat tcagcataac acgaatagca aaacctgaca 180
 acgcttaaca ataaaacgtc ataccaagtc ctaaagttca ttatttncaa atatcttggt 240
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 ccatagccac cactccgta gccgcgcga cctccgtagc caccacctcc atagccgcg 360
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 ctggcggagg agttcacaaa 500

<210> 5944
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-060-P1-N6-G6
 <400> 5944

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 catcactgag cttaatgggt ggttttgga aatattatat gaaaaagggc catactggaa 180
 caaccaaacc agccccagtc gtcattctac ggcagcgttc ccgtcgattg gggcagcgat 240
 gccagccagc cagggcctga accgggcggc gggaaaagtc agtttccttg gcggagaagc 300
 agccagcgt ctacctctgg ggatcagggt ccaccagccc gaagaacccc ccagccgaat 360
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<210> 5945
 <211> 57
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-060-P1-N6-H11
 <400> 5945

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<210> 5946

<211> 551

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-H2

<400> 5946

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tatatccttg cagataaaaa taaaactaga catagcaaaa agtccaagc agcacattca 180
gagaacttat gccttggcag cagcctgggc agcaaagtcg cgctcctct gtcctcgat 240
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aatggtgaac acgttgccca tgcgggtggc gaactggtgg cccatggagt cctcgacgtg 360
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<210> 5947

<211> 57

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-060-P1-N6-H4

<400> 5947

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<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-060-P1-N6-H6

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 aactttatta ttgaattaca actaataatc aatctaaaag agggcaccac caatgatgtg 180
 ttgttggttag gaggctgctg gggtttgtcaa agcaagttgg acaaagggca acaattgttg 240
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 ctgtgtcaag aaggaagcac gacttgctgc agctagctcg cttaatggca gtagtatttg 360
 ctgctgcaaa taagcagcgg gggttcagtgc ggccaattgg ttaaatggaa gaagttgttg 420
 ttgctgagag taggcagtag ctagctggct aaatggntaa tagttgttg tgcaaataag 480
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<210> 5949

<211> 602

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-K6-A1

<400> 5949

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 ctctgctgct tatttgcaac aacaattacc attcagccag ctagttgctg cctacccccca 480
 gcaatttctt ccattcaacc aactagcagc attgaactct gctgcttatt tacagcagca 540
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 ac 602

<210> 5950

<211> 591
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-062-Q1-K6-A10

<400> 5950

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 aggtgccggc ggagctggtg gcggcgggca gccggacgcc gtcgccaag acgaaggcgt 180
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 gtcctacgc cttcgtcctc ttcgacaagt ccaccaactc cctgctcgtc gcatctgacc 540
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<210> 5951
 <211> 602
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-062-Q1-K6-A11

<400> 5951

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 acaaaccatc agggcacagc agctgcagca actcgtgcta cctgtgatca accaagtagc 180
 tggggcggac ctttctccct actctcagca acaacaattt cttccattca accaactgtc 240
 tacactgaac cctgctgctt atttgcagca acaactatta ccattcagcc agctagctac 300
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ttccttcttg acacagcaac agttgctgcc tttctaccag cagtttgcg ctaacccgc 480
aaccctctta caactacaac aattgttgcc ctttgtccaa cttgctttga cagaccgagc 540
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<210> 5952

<211> 127

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-K6-A12

<400> 5952

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gtttcat 127

<210> 5953

<211> 610

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-K6-A2

<400> 5953

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caagnaatta tccctccttg cgcttcttgc gctttttgag agcgcaacaa atgcgtccat 120
tattocacaa tgctcacttg ctcttagttc cattattcca cagttcctcc caccagttac 180
ttcaatggcc ttcgaacacc cagctgtgca agcctatagg ctacaacaag cgattgcggc 240
gagcgtotta caacaaccaa ttgcccaatt gcaacaacaa tccttggcac atctaacaat 300
acaaaccatc gcaacgcaac agcaacaaca gttcctacca gcaactgagcc acctagccat 360
gggtgaacct gtcgctact tgcaacagca gctgcttgca tccaaccac ttgctctagc 420
aaacgtagtt gcaaaccagc aacaacaaca actgcaacag tttctgccag cgcttagtca 480
actagccatg gtgaacctg ccgctacct acaacagcaa caactgctt catctagccc 540
gctcgtgtg gccaatgcac ctacatacct gcaacaagaa ttgttgcaac agattgtacc 600

agctctaact

610

<210> 5954

<211> 628

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-K6-A6

<400> 5954

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agtagcaaaa ttaatttttc gtatgatgaa gaacagaagg tctggatccc acaagataaa 120
aaggatgaaa ttgtcttgat tcttgttcag aggcagaaaag aattgcaagc acatatgcat 180
gactggacag actgggcccc gcagaaagtg atgcaggtcg cacaccgact tgcaaaggag 240
aaggatgaac ttcagtcact caggaaagag aaggaagagg ctgaccgcct gcaagaggag 300
aggcaccatt tggaagagag tactcggaaa aagcttctgg agatggagtc tgcaatttct 360
agggcaaatg ctcagctgga gaaagcagaa gcttctgctc gcagacgtga gggttgagaat 420
gcacaactca cgttacagat ggaagctgca aagcgacatg cagcagagtc agcaacaaat 480
atttcagagc ttttaaagaa agacgagaac agccgtaaaa ggtctcagcg ttgggaatct 540
gatagagccc tattacaaga ggaacttgca gcacaaaaga gcagggttatt ttcgggttca 600
agaacaactc cagcatgcta aagaacta 628

<210> 5955

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-K6-A9

<400> 5955

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cttaccttta tcacccttgt tcctccaaca atcatcagcc ctattacagc agttaccttt 120
gggtgcattta ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa 180
ccttgctgcc tactctcagc aacagcagtt tcttccattc aaccaactag ctgcattgaa 240
ctctgcttct tatttgcaac aacaacaact accattcagc cagctatctg ctgcctaccc 300

ccagcaattt cttccattca acccatcatt ggtggtgccc tcttttagat ttcttatgag 360
 ttatagttca ataataaagt tttttgtctg atgtttgtgg cttcccagaa ataagaaagt 420
 acatttct 428

<210> 5956
 <211> 463
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-062-Q1-K6-B1
 <400> 5956

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 taaccaattg gccgcactga accccgctgc ttatttgcag cagcaaatac tactaccatt 180
 tagccagcta gctgcagcaa accgtgcttc cttcttgaca cagcaacagt tgctgccttt 240
 ctaccagcag tttgctgcta accccgcaac cctcttacia ctacaacaat tgttgccctt 300
 tgtccaactt gctttgacag accgagcggc ctctaccaa caacacatca ttggtggtgc 360
 cctcttttag attgcttatt agttgtaatt caataataaa gttttttgga tgatgtatgt 420
 ggccaaccag aaataagaag ttacatttcc agattttaat gtg 463

<210> 5957
 <211> 565
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-062-Q1-K6-B11
 <400> 5957

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 ctaactccaa aaaccatgaa gctggtgctt gtgggtcttg ctttcattgc tttagtatca 120
 agtgtttctt gtacacagac aggcggctgc agctgtggc aacaacaaag ccatgagcag 180
 cgacgtgac cacaacaaca tcatccacaa aaacaacaac atcaaccacc accacaacat 240
 caccagcagc agcaacacca acaacaacaa gttcacatgc aaccacaaaa acatcagcaa 300

caacaagaag ttcatgttca acaacaacaa caacaaccgc agcaccacca ccaacaacaa 360
caacaacagc accaacaaca acatcaatgt gaaggccaac aacaacatca ccaacaatca 420
caaggccatg tgcaacaaca cgaacagagc catgagcaac accaaggaca gagccatgag 480
ccacaacatc aacaacaatt ccagggtcat gacaagcagc aacaaccac acagccttaa 540
gaatatcagc agggccagga aaaat 565

<210> 5958

<211> 608

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-K6-B12

<400> 5958

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aatggctacc aagatattag ccctccttgc gcttcttgcc ctttttgtga gcgcaacaaa 120
tgcgttcatt attccacaat gctcacttgc tcttagtgcc attattccac agttctctcc 180
accaggggag ggaatgggct tcgaacacct agctgtgcaa gccaacatgc aacaacaagc 240
gcttgcgagg agcgtcttac aacaaccaat tgcccaattg caacaacaat ccttgcgcca 300
tctaacaata caagccatca caacgcaaca gcaacaacag ttctaccag cactgagcca 360
cctagccatg gtgaaccctg cgcctactt gcaagagcag ctgcttgcat ccaaccact 420
tgctctggcg aacgtagttg caaaccagca acaacaacag ctacaacagt ttctgccaac 480
gctcagtcaa ctagccatgg tgaaccctgc cgcctacgta caacaacaac aactgctttc 540
atctagcccg ctgctgtgg gcaatgcacc tacatacctg caacaacaat tgttgcaaca 600
gattgtac 608

<210> 5959

<211> 582

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-K6-B4

<400> 5959

gaagcacaat agtgtaccaa caatggcagc caaaaatttt gctccttat gctccttggt 60

atttctgcaa gtgctgctac ggcgaccatt ttcccgcaat gtcacaagc tcctatagct 120
 tcccttcttc ccccgtagct ctcaaccagcg gtgtcttcgg tatgtgaaaa acccaattct 180
 tcaaccctac aggatccaac aggcaatcgc agctggcatc ttacctttat cacccttggt 240
 cctccaacaa tcatcagccc tattacagca gttacctttg gtgcatttat tggcacaaaa 300
 catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcct actctcagca 360
 acagcagttt cttccattca accaactagc tgcattgaac tctgcttctt atttgcaaca 420
 acaacaacta ccattcagcc agctacctgt tgcctacccc caacaatttc ttccattcaa 480
 ccaactggca gcattgaact ctctgctta ttacagcag caacaactac taccattcag 540
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<210> 5960
 <211> 586
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-062-Q1-K6-B5

<400> 5960

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 ttatgctcct tgggtcttct gcaagtgtgt ctacggcgac ctttttcccg caatgctcgc 120
 aagctcctat agcttccctt cttccccctg acctctcacc agcgggtgtct tcggtatgtg 180
 aaaacccaag ggttcaaccc tacaggatcc aacaggcaat cacagctggc atcttacctt 240
 tatcaccctt gttcctccaa caatcatcag ccctattaca tcagttacct ttggtgcatt 300
 tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg 360
 cctactctca gcaacagcag tttcttccat tcaaccaact agctgcattg aactctgctt 420
 cttatttgca acaacaacaa ctaccattca accagctacc tgctgcctac cccagcaat 480
 ttcttccatt caaccaactg gcagcattga actctcctgc ttatttacag cagcaaccac 540
 tactaccatt cagccagcta gctgggtgtga gccctgctac cttttt 586

<210> 5961
 <211> 597
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3061-062-Q1-K6-B6
 <400> 5961

gttcatcaaa cggcagtgcg tagagaggat cgtcgaacag aacagtcatg aagagggtcat 60
 cgttctcgtc gtgtgcttgg ctctgtcagc tgccagcgcc tctgcaatgc agatgccctg 120
 cccctgcgcg gggctgcagg gcttgtacgg cgctggcgcc ggcttgacga ccatgatggg 180
 cgccggcggg ctgtaccctt acgcggagta cctgaggcag ccgcagtga acccgctggc 240
 ggcgggcgcc tactacgccg ggtgtgggca gccgagcgcc atgttccaac cgctccggca 300
 acagtgtctc cagcagcaga tgaggatgat ggacgtgcag tccgtcgcgc agcagctgca 360
 gatgatgatg cagcttgagc gtgccgtgc cgccagcagc agcctgtacg agccagctct 420
 gatgcagcag cagcagcagc tgctggcagc ccaggggtctc aaccccatgg ccatgatgat 480
 ggcgcagaac atgccggcca tgggtggact ctaccagtac cagctgcca gctaccgcac 540
 caaccctgtt ggcgtctccg ctgccattcc gccctactac tgattcatga tatttgg 597

<210> 5962
 <211> 588
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-062-Q1-K6-B7
 <400> 5962

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 tgttcttagt tgattgttgg gagcgaagaa ggcattgatac cttctgtgag gatctctcct 120
 ggctctgcag ctttctctgg ctccagccta cgcttaaaat tacattcaat tccatccatc 180
 tctagtctca aaccctccaa atatgtggtc tcctcgctga aaccactcta cctagcaccg 240
 ctagatggtc cacacacttc tgagcttaag tcttggagac aaccacttga gttccgttgt 300
 gctgcttctg ctgccgatga caaggagtca aagactcagg tggtgccagt tcagttggaa 360
 ggcgcacaga ggttaaagat ctccatctat ttcgcgacct ggtgggcgct taatgtgata 420
 tttaacattt acaacaagaa gggctctcaat gctttccctt acccctgggt cacctncaca 480
 ctctcccttg cctgcgggctc tgcgatgatg cttttctcgt gggccactcg tcttgttgag 540

gcccccaaga cgcacctaga cttctggaaa atcctttttc cggttgct

588

<210> 5963

<211> 584

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-K6-B8

<400> 5963

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gatattttcc ctcttatgc tccttgcctt ttctgcatgt gttgctaacy cgacaatttt 120
ccctcaatgc tcacaagctc ctatagcttc ccttcttccc ccataccttc catcaatgat 180
agcttcagta tgtgaaaacc cagctcttca gccctatagg ctccaacaag caatcgagc 240
aagcaacata cttttatcac ccttggtgtt tcaacaatcg ccagccctat ctttggtgca 300
gtcattggta caaaccatca gggcacagca gctgcagcaa ctctgtgtac ctgtgatcaa 360
ccaagtagct ctggcaaacc tttctcccta ctctcagcaa caacaatttc ttccattcaa 420
ccaactggct aactgaacc ctgctgttta tttgcagcaa caactattac cattcagcca 480
gctagctact gcctactctc agcaacaaca acttcttcca tttaacccaa ttggccgcac 540
tgaaccccgc tgcttatttg cagcagcaaa tactactacc attt 584

<210> 5964

<211> 599

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-K6-B9

<400> 5964

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accaagatat tatcctctct tgcgcttctt gcgctttttg cgagcgcaac aaatgcgtcc 120
attattccac aatgctcact tgctcctagt tccattattc cacagttcct cccaccagtt 180
acttcaatgg ctttgaaca cccagctgtg caagcctata ggctacaaca agcgattgcy 240
gggagcgtct tacaacaacc aattgccccaa ttgcaacaac aatccttggc acatctaaca 300

atacaaacca tcgcaacgca acagcaacaa cagttcctac cagcactgag ccacctagcc 360
 atggtgaacc ctgtcgcta cttgcaacag cagctgcttg catccaaccc acttgctcta 420
 gcaaacgtag ttgcaaacca gcaacaacaa caactgcaac agtttctgcc agcgcttagt 480
 caactagcca tgggtgaaccc tgccgcctac ctacaacagc aacaactgct ttcacttagc 540
 ccgctcgctg gggccaatgc acctacatac ctgcaacaag aattgttgca acagattgt 599

<210> 5965

<211> 148

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-K6-C1

<400> 5965

caatnacatt agtgggtgttt gcaattgaag aatgtgtcta cctagccgtt atactcatat 60
 aacgggtgtta agcaataaag taccatacat tatgatgttt gtactatgat atttgaataa 120
 gaataactaat tgtaattata atgctact 148

<210> 5966

<211> 605

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-K6-C11

<400> 5966

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 ccctccttgc gcttcttgcc cttttagtga gcgcaacaaa tgcgttcatt attccacagt 120
 gctcacttgc tcctagtgcc agtattccac agttcctccc accagttact tcaatgggct 180
 gggagacatc cagccgtgca agcctacagg ctacaactag cgcttgccgc gagcgcccta 240
 caacaaccaa ttgccaatt gcaacaacaa tccttggcac atctaaccct acaaaccatt 300
 gcaacgcaac aacaacaaca acagtttctg ccatcactga gccacctagc cgtggtgaac 360
 cctgtcacct acttgcaaca gcagctgctt gcaccaacc cacttgctct ggcgaacgta 420
 gctgcatacc agcaacaaca acagctgcaa cagtttatgc cagtgtcag tcaactagcc 480
 atggtgaacc ctgccgtcta cctacaacta ctttcatcta gcccgctgc ggtgggcaat 540

gcacctacgt acctacaaca acagttgctg caacaaattg taccagctct gactcagcta 600
gctga 605

<210> 5967

<211> 617

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-K6-C12

<400> 5967

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gctccaattc ggacgaggag atgccgcgga tccctctgat caggttcccc aagcgggaatc 120
tcaaagcccc atctccatcc gcgccagcgg cgtcgcaacc cgcagaccag cgggcgggcc 180
tcatgttccg gttaggggct aaagcagagg caccatcttc tggagagatt aaaaattacc 240
gcttttagatc tgatgtgcct tgtccacctt ctcatactgc tgtaggaggt ccagcttcac 300
tccttcctaa gcgcaaacc ctgactgaag aagagattga ggctattatg ctgggggggct 360
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cgaacttatt gcctttgacc tctgaaagag tggtattgaa gccatgtcga tatggaagtg 480
tgtgtttttt ttaattcagt ctggaagttg gctgttgaga catccatttc cagtactccg 540
cacatgtaac tgagcaaacc gtgaacacat ttagttcctt gcagaagtgt tgagcatgga 600
atggttttgc ttttgca 617

<210> 5968

<211> 612

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-K6-C4

<400> 5968

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ttttccctcc ttatgtctct tgctctttct acatgtgttg ctaacgcgac aattttcct 120
caatgctcac aagctctat agcttccctt cttcccccat accttccatc aattatagct 180

tcagtatgtg aaaaccacagc tcttcaacca tataggcttc aacaagcaat cgcagcaagc 240
aacatacctt tatcgccctt gttgtttcaa caatcaccag ccctatcttt ggtgcagtca 300
ttggtacaaa ccatcagggc acaacagctg cagcaactcg tgctacctgt gatcaaccaa 360
gtagctctgg caaacctttc tccctactct cagcaacaac aatttcttcc attcaaccaa 420
ctgtctacac tgaaccctgc tgcttatttg cagcaacaac tattaccatt tagccagcta 480
gctactgcct actctcagca acaacaactt cttccattta accaattggc cgcactgaac 540
cccgctgctt atttgcagca gcaaatacta ctgccattta gcgagctagc tgcagcaagt 600
cgtgcttctt tc 612

<210> 5969

<211> 595

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-K6-C5

<400> 5969

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ggggctcggg acgggaacgg gacaggaccc caaaatctca gatccttctt gcccgcccg 120
ccgtgcccggt cgacgcgtcg ttcttgccgg ccgcgcctca cctccgcctt ctctctctcc 180
aggggatcgg atacgccaca ggctgcgcga tgggtgctgtg ggtcttcggc tacggctccc 240
tcatctggaa ccccggttc gacttcgacg aaaaaatcct cggcttcacg aagggtaca 300
agcgacactt taatctcgct tgcattgacc acagaggcac accggagcat ccggcgagga 360
cctgcacgct tgaaaccgac gacgaggcca tatgctgggg aattgcatat tgtgtcaagg 420
gtggtccaga aaaagagcta aaagcaatgc agtacttga gagaagagag tgtgagtacg 480
accagaagat atccattgat ttctacaagg aaggagatcc cttgaaacca gctgtgacag 540
gcgtcttagt gttcgtttcc actccagatc caattggcaa caagtactat cttgg 595

<210> 5970

<211> 626

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-K6-C6

<400> 5970

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ggcagccaag attttttgcgc tccttgccct ccttgctctt tcagcaagtg ttgctaccgc 120
gactattatt ccacaatgct cacaacaata cctctctcca gtgatagccg cgagatttga 180
atacccatct atacaatcct acaggctaca agaggccatc acagcaagca tcttacgggc 240
gttagcattg accgtccaac aaccatatgc cctattgcaa caaccatcct tagtgaatct 300
gtatctccaa agaatcacag cacaacaact acaacaacgg ttgcttccaa caattaatca 360
agtagttgca gcgaaccttg ctgcttacct tcagcaacaa caatttcttc cattcaatca 420
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acttgctggg agccctgctg ccatcttatt gcagcaacag ttgctgccat tccgtctaca 540
agttgttgca aacattgctg ctttcttgca acaacaacaa ttgctgccat tttaccaca 600
ggttgtggga aacattaacg ccttct 626

<210> 5971

<211> 607

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-K6-C7

<400> 5971

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tattttccct ccttatgctc cttgctcttt ctacatgtgt tgctaacgcg acaattttcc 120
ctcaatgctc acaagctcct atagcttccc ttcttcccc ataccttcca tcaattatag 180
cttcagtatg tgaaaaccca gctcttcaac catataggtt tcaacaagca atcgagcaa 240
gcaacatacc tttatcgccc ttgttgtttc aacaatcacc agccctatct ttggtgcagt 300
cattggtaca aaccatcagg gcacaacagc tgcagcaact cgtgctacct gtgatcaacc 360
aagtagctct ggcaaacctt tctccctact ctgagcaaca acaatttctt ccattcaacc 420
aactgtctac actgaacctt gctgcttatt tgcagcaaca actattacca tttagccagc 480
tagctactgc ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga 540
accccgctgc ttatttgcag cagcaaatac tactgccatt tagcgagcta gctgcagcaa 600

gtcgtgc

607

<210> 5972
<211> 603
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-062-Q1-K6-C8

<400> 5972

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gaagttggct acgatgatgt tgggtggagtt agaaagcaga tggcccaaatt cagagaactg 120
gttgaacttc ccctgcgtca cccccagctt ttcaagtcta ttggtgtgaa gccaccaaag 180
ggaatattgc tgtatgggcc tcctggctct ggcaagacc ttattgctag agctgtagct 240
aatgagacag gtgctttctt ctttttgatc aatggaccag aaatcatgtc aaagctagca 300
ggagaaagtg aaagcaatct cagaaaggca tttgaagaag ctgagaaaaa tgcaccttca 360
atcattttta ttatcgggtgc aactaacaga ccggacatca ttgaccagc cttgctgagg 420
cctgggcgtc ttgatcagct tatctatatt cctctgcccg atgagcagtc caggcttcag 480
atcttcaaag cctgtctcag gaagtctcct gtggccaagg atgttgactt gaatgctctc 540
gccaaataca ccagggttt cagaggtgca gatatcacag agatctggca gcgcgcatgc 600
aag 603

<210> 5973
<211> 630
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-K6-C9

<400> 5973

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cattgctcc tagtgccagt attccacagt tcctcccacc agttacttca atgggcttcg 120
aacatccagc cgtgcaagcc tacaggctac aactagcgtc tgcggcgagc gccttacaac 180
aaccaattgc ccaattgcaa caacaatcct tggcacatct aaccctacaa accattgcaa 240

cgcaacaaca acaacaacag tttctgccat cactgagcca cctagccgtg gtgaaccctg 300
 tcacctactt gcaacagcag ctgcttgcat ccaaccact tgctctggcg aacgtagctg 360
 cataccagca acaacaacag ctgcaacagt ttatgccagt gctcagtcaa ctagccatgg 420
 tgaaccctgc cgtctaccta caactacttt catctagccc gctcgcggtg ggcaatgcac 480
 ctacgtacct acaacaacag ttgctgcaac aaattgtacc agctctgact cagctagctg 540
 tggcaaacc tgctgcctac ttacaacagt tgcttccatt caaccaactg gctgtgtcaa 600
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<210> 5974

<211> 621

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-K6-D12

<400> 5974

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 tgccagtggg ggtggctctg atgctacctt cttgactcaa gttttgcaaa acccaactat 180
 gatgcgggtg atgcagaaca ttatgtctaa tcctcagtcc atgaatcagc tgcttaatat 240
 gaatccaaat gtacgtaaca tgatggaatc caatactcaa atgagagaaa tgattcagaa 300
 tccagaattt attcgccagt tgacgtctcc tgaaacattg cagcaattaa tttcattcca 360
 gcagtctttg atgtcacaac ttggccaaca acaaactgga caggagcgga cacaatcagc 420
 ctctggtgca ggcaatgtga acctcaacac cttgatgaac atgttcagtg ggcttggtgc 480
 tgggtggtggc ctangtggtc caaatgtctc taatgtgcca ccagaagaac tgtatgcaac 540
 acaattagct cagctccaag aaatgggttt ttttgacaca caggagaaca tccgagcctt 600
 ggccgccact gctggaaatg t 621

<210> 5975

<211> 616

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-K6-D2

<400> 5975

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tggtgaatgc aattttcaag cttgctgttg agtatcctca cgcggacaat ttagctggcg 180
aggagacaag gcagcgattg agtaccagga tgagtctatt caatgtcgct gaggcaacaa 240
ttacaagatc ctagaagaaa acccgtggca gctctacact acaataaggg tgataaatat 300
gtctcgccca atggaagata tcatatttag acatgatcaa ggtagcaaga tgttgacccc 360
atgggtcctt ttggtggaat aatgatagag tgcggcacca atcaacctat tgagaaagtg 420
cttgagctg aagatgcagc gcgaggatgc tgcagcattc gaacagtgcc aacgagctgc 480
tcttgcgccg gaagctggag gagcagcagc aggtcgccga acttcagcac gccattgagc 540
tccagagccg ccgcctcatg gatctccagc tgctcggcct caaggctcgc gcagctgcga 600
cagcagcagc ggcatac 616

<210> 5976

<211> 618

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-K6-D3

<400> 5976

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ggcgagcaca gagtgggacg acatccagcg ccgcctcggg aacttgcccc cgaagccgga 180
gcccttcaag ccgccgccct tcgccccgaa ggttgacgcc gacgagcagc ccaagtccaa 240
ggaatggctt gacgtgcgcg agcccgaaga gctcgaggaa ctagaggacg atctggatga 300
cgaccgcttc ctcgagaagt acaggaagat gaggctcgca gagctgaggg aagccgcaaa 360
agccgcgcga tttggtacta tacttcccat cactggctcc gacttcgtgc gggaggtatc 420
gcaggcacia tcagatgttt ggggttggtt cttcctctac aaggatggga tacctgaatg 480
tggaattgctt cagaattgtt tggaagaatt ggctactagg tatccagcga cgaagtttgt 540

taaaattatc tccacagact gcatcccaa ctaccagat aggaatgttc ctacaatact 600
 ggtgtataac aacagtgc 618

<210> 5977
 <211> 611
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-062-Q1-K6-D5

<400> 5977

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 cgccacatcc gtgccagcgc tccgcccctg gcttggtgac ctctcccg cctcgtcgt 180
 cctcctcatc gccgcccacg tctcgtctct cggttactgg atctacaggc tcgccacgga 240
 cgggtccagg cagcccgcgc ggagcaagaa gactaaggg gacggcgccc gcggccggat 300
 gcttgaaacc agtttggtat ttcagtcctg catccttggc ttgttgatct ccaagccttc 360
 caacgtcaga tgatggcgtg gaaagttcct gaaagaacta gaacagggaa ccgatcttat 420
 ccaatggttt gttcagatgt tgggtgcaaa agtgacgata gctgaatagc tgatatgtgg 480
 aaggaggccc ttttgagcat aaatagtttt cggttgctgg ataggtttga catctctcga 540
 cctctccgtg taaagaacag tagctagaca gatgtgccgt ttcataatgt tgtggcctgg 600
 cgggcttttg t 611

<210> 5978
 <211> 111
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-062-Q1-K6-E1

<400> 5978

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<210> 5979

<211> 601
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-062-Q1-K6-E11

<400> 5979

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acaggttcaa acccaatggg tgatgttgag ctaacaaatt tcgatgagaa actggccaat 180
cttgggggaa ggcaagaatc agcgactttc agatgcaagc cagttaagaa caggggtcaaa 240
cccaatgggt gatgttgagc taacaaatct cgatgagaaa ctggccaatc ttgcagaaga 300
caagaatcag cgactttcag atgccaacca gttaagaaca gggaggcttg gtgaagaact 360
ggtcgagaaa tatttggcca aacagctagg ttccaacaat gtgaggtggg tgaacaacag 420
aattgaaacc ggactgcctt atgatattgt tataacacac ccagaggggtg tcacagagta 480
tgtggagggt aaaacaactg tatcttcaag aaaagatagg ttgacgtct cagcaaggga 540
atggcagttt gccttgaga aaggggattc atttagcatt gctcgtgtca tcttaggtac 600
a 601
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<210> 5980
 <211> 594
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-062-Q1-K6-E2

<400> 5980

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ctcctatage ttcccttctt ccccgctacc tctcaccagc ggtgtcttcg gtatgtgaaa 180
accaattct tcaaccctac aggatccaac aggcaatcac agctggcatc ttacctttat 240
cacccttggt cctccaacaa tcatcagccc tattacatca gttaccttg gtgcatttat 300
tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcct 360
actctcagca acagcagttt cttccattca accaactagc tgcattgaac tctgcttctt 420
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atttgcaaca acaacaacta ccattcagcc agctacctgc tgcctacccc cagcaatttc 480
 ttccattcaa ccaactggca gcattgaact ctcctgctta tttacagcag caacaactac 540
 taccattcag ccagctagct ggtgtgagcc ctgctacctt cttgatacaa ccac 594

<210> 5981

<211> 586

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-K6-E5

<400> 5981

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 nacattatcc ctccttgccg ttcttgccct ttttgtgagt gcaacaaatg cgttcattat 120
 tccacaatgc tcacttgctc cgagtgccat tattccacag ttctccctc cagttacttc 180
 aatgggcttc gaacaccag ctgtgcaagc ctataggcta caacaagcgc ttgcggcgag 240
 cgtcttagaa caaccaattg cccaattaca acaacaatcc ttggcacatc taaccataca 300
 aaccatcgca acgcagcagc aacaagcact gagccaccta gccgtggtga accctatcgc 360
 ctacttgcaa caacagctgc ttgcatccaa cccacttgct ttggcaaacg tagctgtata 420
 ccaacaacaa caacagttgc aacagtttct accagcgtc agtcaactag ccatggtgaa 480
 ccctatcgcc tacctacaac agcaacaact tcttttatct agcccgtcgc ctatgggcaa 540
 tgcacctaca tacctgcaac aacagttggt gcaacaacag ttgctg 586

<210> 5982

<211> 232

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-K6-E7

<400> 5982

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 accgcgaact gactaggagc tccggatgta tcatngaaa ctcaggacag aatcgcagtt 120
 gcaacctgtt agatgtcttc taccggcact atatataatt tttgtttgat gtgtaatgat 180

gttactgttc aacgtttatt accctactat actgttggat gttctttgga cc 232

<210> 5983

<211> 588

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-K6-E8

<400> 5983

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ggatgttaca ggcttattga tatccctatg agtaactgct tcaacagtgg tataaataag 120
atatttgtga tgagtcagtt caattctact tcgcttaacc gccatattca tcgtacatac 180
cttgaaggcg ggatcaactt tgctgatgga tctgtacagg tattagcggc tacacaaatg 240
cctgaagagc cagctggatg ggtccagggg acagcagact ctatcagaaa atttatctgg 300
gtactcgagg gttattacag tcacaaatcc attgacaaca ttgtaatctt gagtggcgat 360
cagctttatc ggatgaatta catggaactt gtgcagaaac atgtcgagga cgatgctgat 420
atcactatat catgtgctcc tgttgatgag agccgagctt ctaaaaatgg gctagtgaag 480
attgatcata ctggacgtgt acttcaattc tttgaaaaac caaaggtgct gatttgaatt 540
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<210> 5984

<211> 609

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-K6-E9

<400> 5984

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ttcgtgggtg agcggatcga gatggcggcg tcggatgttg agtaccgctg cttcgtcggc 120
ggcctcgctt gggccacgga cgaccactcc ctccacaacg cttcagcac ctacggcgag 180
gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240
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ctggacggcc gcaacatcac cgtcaacgag gccagtcgcc gcggcgccg tggaggcgcc 360
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gatggcgccg gcggctacgg cgggtggcgcc ggctacgggt gtggcgccg cggtacgggt 480
ggtgggtggc gcggctacgg cgggtggcaac cgtggcgccg gctacggcaa ctccgacggg 540
aactggagga actgagcggt ggggcccgcg cggccaagtt atcctgttcg ctaccgtgtt 600
gtttaccct 609

<210> 5985
<211> 538
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-062-Q1-K6-F11
<400> 5985

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ctgcattgaa ctctgcttct tatttgcaac aacaacaact accattcagc cagctacctg 180
tggccggccc ccaacaattt ctccattca accaactggc agcattgaac tctcctgctt 240
atttacagca gcaacaacta ctaccattca gccagctagc tgggtgtgagc cctgctacct 300
tcttgacaca accacagttg ttgccgttct accagcagc tgcgcctaac gctggcacc 360
tcttacaact gcaacaattg ctgccattca accaacttgc tttgacaaac ctagcagtg 420
tctaccaaca acccatcatt ggtgggtgcc tcttttagat ttcttatgag ttatagttca 480
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<210> 5986
<211> 619
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-062-Q1-K6-F3
<400> 5986

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aaaattttgc ctcttatgc tcttgggtct ttctgcaagt gctgctacgg cgaccatttt 120

cccgcaatgc tgcgaagctc ctatagcttc ccttcttccc cgtacctct caccagcggg 180
 gtcttcggta tgtgaaaacc caattcttca accctacagg atccaacagg caatcacagc 240
 tggcatctta cctttatcac ccttggtcct ccaacaatca tcagccctat tacatcagtt 300
 acctttggtg catttattgg cacaaaacat cagggcacaa caactacaac aacttggtgct 360
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 attgaactct gcttcttatt tgcaacaaca acaactacca ttcagccagc tacctgctgc 480
 ctacccccag caatttcttc cattcaacca actggcagca ttgaactctc ctgcttattt 540
 acagcagcaa caactactac cattcagcca gctagctggg gtgagccctg ctaccttctt 600
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<210> 5987

<211> 615

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-K6-F5

<400> 5987

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 cgcaagctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg tcttcgggtat 180
 gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcacagct ggcattctac 240
 ctttatcacc cttgttcttc caacaatcat cagccctatt acatcagtta cctttggtgc 300
 atttattggc acaaaacatc agggcacaa aactacaaca acttggtgcta gcaaaccttg 360
 ctgcctactc tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg 420
 cttcttattt gcaacaacaa caactaccat tcagccagct acctgctgcc tacccccagc 480
 aatttcttcc attcaaccaa ctggcagcat tgaactctcc tgcttattta cagcagcaac 540
 aactactacc attcagccag ctgctgggtg tgagccctgc taccttcttg atacaaccac 600
 agttgttgcc gttct 615

<210> 5988

<211> 608
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-062-Q1-K6-F6

<400> 5988

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tattttccct ccttatgctc cttgctcttt ctacatgtgt tgctaacgcg acaattttcc 120
ctcaatgctc acaagctcct atagcttccc ttcttcccc atacctcca tcaattatag 180
cttcaatatg tgaaaaccca gctcttcaac catataggct tcaacaagca atcgagcaa 240
gcaacatacc tttatcgccc ttgttggttc aacaatcgcc agccctatct ttggtgcagt 300
cattggtaca aaccatcagg gcacaacagc tgcagcaact cgtgctacct ctgatcaacc 360
aagtagctct ggcaaacctt tctccctact ctcagcaaca acaatttctt ccattcaacc 420
aactgtctac actgaacctt gctgcttatt tgcagcaaca actattacca tttagccagc 480
tagctactgc ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga 540
accccgctgc ttatttgcag cagcaaatac tactaccatt tagccagcta gctgcagcaa 600
accgtgct 608
  
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<210> 5989
 <211> 618
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-062-Q1-K6-F8

<400> 5989

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tcttgaatgg caacacacag gggaaacct gccagcacgg cctagtgggc attatagcgc 180
aacaaatgcg agacgttgga atggagcact ttgtggacga ctacttttcg gttgacaaat 240
ttaaaaaggc ttacgcacga aggattgaaa gtgtaggcga caagtccttt tggccacaag 300
tggccatagc caacgaagtt aatgcaccta ttggtaagag gagtgttggg aggcaaagga 360
  
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agaatcggat gaaaagttgc ctagaagggtg gcgctggtaa gaagaaagag tccatacctc 420
aggaggaaaa ggagaagaag gtacttagag gcaaaattaa atgcccgaac tgtggccaac 480
ttggacatag gaaggctagc ccaaaatgcc ctctaaatgg gtccaaaaaa aggaaaagga 540
aacctcgaaa aaatgtcaca aaacaatggg ttccaaaaaa tatgggccga atcacctata 600
catcaagatg acaaccca 618

<210> 5990

<211> 620

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-K6-F9

<400> 5990

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caatcagtgg ttaagcttag acaatccgaa gagaagggtta tcagcctgag caaagagaag 120
gagcagttga tgaaggaaag agatgctgca tttcaggagg ctcatatgtg gcgcattgaa 180
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gtcctgagag agcagagcag cacaaagcaa gtatgcgagg agaggtctga atcatgctca 420
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aaagcctgcg taagtgactc tagatcggtc ccggtttcga gcgatagcac tgaggtccag 540
ctggctgtgg atgggggtgga catccgtcct gttggcgatg cagagtggag tagcttccag 600
cagccagaag cgctgatcgc 620

<210> 5991

<211> 609

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-K6-G11

<400> 5991

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aagcttgtct tccagcccag gagaagaagg ctacggcggc gcttaccatg ttctcagaga 180
aggtgtgctg gatgacgtgt ctgccatfff cggcttgcat gtggatccag gacttctgt 240
aggcaccgtt tcgtccaggc cagggccggt tctagcagca gcaggtagat ttctgggtgac 300
ggtcactgga aaaggcggac atgctgcagg gccacaggat gctgtggatc ccattgttgc 360
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gaagaggatc aaagagatca tagaagggtc tgccgccgtc caccgctgca ccgccgccgt 600
cgacttcat 609

<210> 5992

<211> 625

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-K6-G2

<400> 5992

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ccatgtcgac cagtacggca acccagtcgg cggcgtcgag caccggcaccg gcggcatgag 180
gcacggcacg ggaaccgccg gcggcatggg ccagctgggt gagcacggcg gcgctggcat 240
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ctccggcagc tccagctcca gctcgtcgga ggacgacggc atgggcggaa ggaggaagaa 360
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gcagggacac accggcggct cctacgccac cggcaccgag ggcaccggcg agaagaaagg 540
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<210> 5993
 <211> 617
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-062-Q1-K6-G5

 <400> 5993

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ctcaatgctc acaagctcct atagcttccc ttcttcccc atacctcca tcaattatag  180
cttcagtatg tgaaaaccca gctcttcaac catataggct tcaacaagca atcgcagcaa  240
gcaacatacc tttatcgccc ttgttggttc aacaatcacc agccctatct ttggtgcagt  300
cattggtaca aaccatcagg gcacaacagc tgcagcaact cgtgctacct gtgatcaacc  360
aagtagctct ggcaaacctt tctccctact ctcagcaaca acaatttctt ccattcaacc  420
aactgtctac actgaaccct gctgcttatt tgcagcaaca actattacca ttagccagc  480
tagctactgc ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga  540
accccgctgc ttatttgcag cagcaaatac tactgccatt tagcgagcta gctgcagcaa  600
gtcgtgcttc cttcttg                                     617
  
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<210> 5994
 <211> 630
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-062-Q1-K6-G6

 <400> 5994

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gtaaccgcca ggctcgcctc ctcgtcctcg gcctggacaa tgctggcaag accaccatac  180
tctatagact gcaaattggga gaggtcgtct ccacgatccc gacaattgga ttcaacgttg  240
agacggtgca gtacaacaac atcaagttcc aagtatggga tcttggtggt caaacaagca  300
  
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tcaggccata ctggcgggtgc tacttttccaa acaccaggc tatcatatat gttgttgatt 360
 caagcgatac agataggctt gtaacagcaa aagaagaatt ccatgccatc cttgaggagg 420
 atgaacttaa aggtgcagtt gtccttgtgt atgcaaataa gcaggatctt ccagggtgcac 480
 tcgatgatgc tgccattaca gagtcattag aactacacaa aattaagagc cgccaatggg 540
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 <211> 606
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 <213> Zea mays
 <223> unsure at all n locations
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 tccagcgcgc cgcccactg cgcgcgcggc ctccgctgcg gcttcgcgca cggcgtcttc 240
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 ccgctgcgcg cgctggcctt cgttgtcccg aacaaccgc tgccgcccgt accaccgcc 480
 ctccccctgcc cccgctcggc ctcggtcgtc gcccatcagg ttgatcgcgt cacgcaggcc 540
 atgcagcagg gccgcagcgt gcgcctgctt acgcgcgcgc atgccgatgc cgcttcgtcg 600
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<210> 5996
 <211> 198
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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<400> 5996

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tttttttttt tttttttttt tttttttttt tttttttttt ttttttttat ttttgggggg 180
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<210> 5997

<211> 596

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-K6-H1

<400> 5997

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aagtagctct ggcaaacctt tctccctact ctcagcaaca acaatttctt ccattcaacc 180
aactgtctac actgaacctt gctgcttatt tgcagcaaca actattacca tttagccagc 240
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accccgcaac cctcttacia ctacaacaat tggtgcccct tgtccaactt gctttgacaa 480
accagcagc ctcctaccaa caacacatca ttggtggtgc cctcttttag attgattatt 540
agttgtaatt caataataaa gttttttgga tgatgtatgt ggccaaccag aaataa 596

<210> 5998

<211> 620

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-K6-H12

<400> 5998

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atcgcaacag gcattcttacc attatcaccc ttgttcctcc aacaaccgtc agccctatta 180
cagcgggtac ctttgggtcca tttgggtggca caaaacatca gggcacaaca actacaacaa 240
cttgtgctag caaaccttgc tgcatactct cagcaacatc agtttcttcc attcaaccaa 300
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gctgcctacc cccagcaatt tcttccattc aaccaactag cagcattgaa ctctgctgct 420
tatttacagc agcaacaact actaccattc agccagctag ctgatgtgag ccctgctgcc 480
ttcttgacac aacaacagtt gttgccgttc tacctgcacg ctatgcctaa cgctggcacc 540
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ttctaccaac aacctcatcat 620

<210> 5999
<211> 609
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-062-Q1-K6-H5
<400> 5999

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aatgctcact tgctccaagt tccattatta cacagttcct cccaccagtt acttcaatgg 180
gcttcgaaca cccagctgtg caagcctata ggctacaaca agcaattgcg gcgagcgtct 240
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tcgcaacgca acagcaacaa caattcctac cagcactgag ccacctagcc atggtgaacc 360
ctgccgccta cttgcaacag cagttgcttg catcaaacc ctttgctctg gcaaacgtag 420
ttgcaaacca gccacaacaa cagctgcaac agtttctgcc agcgtcagt caactagcca 480
tggtgaaccc tgccgcctac ctacaacagc aacaactgct ttcattctagc ccgctcgtg 540
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ctcagctag 609

<210> 6000
<211> 612

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-062-Q1-K6-H6
 <400> 6000

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 gctcctatag cttcccttct tccccgtac ctctcaccaa cgggtgtcttc ggtatgtgaa 180
 aaccaattc ttcaacccta caggatocaa caggcaatcg cagctggcat cttaccttta 240
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 ttggcaciaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360
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 tatttgcaac aacaacaact accattcagc cagctatctg ctgcctacc ccagcaattt 480
 cttccattca accaactgac agcattgaac tctcctgctt atttacagca gcaacaacta 540
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<210> 6001
 <211> 596
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-062-Q1-K6-H7
 <400> 6001

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 ctcaatgctc acaagctcct atagcttccc ttcttcccc ataccttcca tcaattatag 180
 cttcagtgty tgaaaaccca gctcttcaac catataggct tcaacaagca atcgcagcaa 240
 gcaacatacc tttatcgccc ttgttgcttc aacaatcacc agccctatct ttggtgcagt 300
 cattgggtaca aaccatcagg gcacaacagc tgcagcaact cgtgctacct gtgatcaacc 360
 aagtagctct ggcaaacctt tctccctact ctgagcaaca acaatttctt ccattcaacc 420

aactgtctac actgaaccct gctgcttatt tgcagcaaca actattacca tttagccagc 480
tagctactgc ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga 540
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<210> 6002

<211> 528

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-A1

<400> 6002

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tgatggggttg ttggtagaac actgttgagt ttgtcaaagc aagttgggttg aatggcagca 120
attgttgcag ttgtaagagg gtgccagcgt taggcatagc gtgcaggtag aacggcaaca 180
actgttgttg tgtcaagaag gcagcagggc tcacatcagc tagctggctg aatggtagta 240
gttgttgctg ctgtaaataa gcagcagagt tcaatgctgc tagttgggttg aatggaagaa 300
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cagagttcaa tgcagccagt tggttgaatg gaagaaactg atgttgctga gagtatgcag 420
caaggtttgc tagcacaagt tgtttagtgg gttgtgccct gatgttttgt gccaccaa 480
ggaccaaagg taactgctgt aatagggctg acggttggtg gaggaaca 528

<210> 6003

<211> 550

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-A10

<400> 6003

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tttttttttt tttgggggaa aaaaaggggg ggggggggga aaaaaaaca aattgggggg 180
gattcaaaac cccccccacc gaataggaaa atttccccct tttttaaac cccccttttt 240
attacccttt tggggggggg ggggttgagg taaaaaaaa ccccaaatgg gggcgaaaaa 300

aaaaaaaaaa ttcatggggt taaaaaaaaa ggggttttttc ccccccttt ttttaccccc 360
 ccccccttg acaaaagttt ttttttgaa aatccccccc cccgaaaaaa aaaaaaaaag 420
 gggagggcgg gaagaaaaaa aaaccctccc ccccccttaa aaaggggcac ccaaaaattt 480
 tttttttggg ggggggaaaa ggggggacct tgggtggggg gtttttaaaa aaaaaaacc 540
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<210> 6004

<211> 481

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-A11

<400> 6004

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 gaggccctc ggtctgtcaa agcaagttgg acaaagggca acaattgttg tagttgtaag 180
 agggttgcgg ggtagcccc aaactgctgg taaaaaggca gcaactgttg ctgtgtcaaa 240
 aaggaagcac ggtttgcctg agctagctgg ctaaattgga gtagtatttg ctgctgcaaa 300
 taagcagcgg ggttcagtcg ggccaattgg ttaaattgga aaagttgttg ttgctgaaag 360
 taggcagtag ctagctggct gaatggtaat agttgttgct gcaaataagc agcagggttc 420
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<210> 6005

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-A12

<400> 6005

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 gtgagagaca agatgcgcgg ggggcacttt acagtgggtt ctactccttc agtataactc 180

tagtcctgtc ttcagaacaa gaagatttcc cacatgttcc tctttggccg agaatcgatc 240
 cacaaagaga acttgggtacc aacttagtac acccatctca ataaacaaaa tgggcgatca 300
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<210> 6006

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-A2

<400> 6006

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 aagggaaaaa aaaaaggggg gggggggggg gggggcccaa aagagaggaa aaaagggggg 360
 ggggggaagg gaaagggggg gggggggggg agaagggggg ggcaaaaagg gggggggagg 420
 aaggggggga aaaagggggg aaaaaaaagg gggggggg 457

<210> 6007

<211> 484

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-A3

<400> 6007

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 acatattatc tcagtacagc caacgggtgc gatgtcagcg cctttggtcg ggtatttact 180
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tggataccaa atcttggggg gggactgggg ccactgcaag aagaacactc ctggattcat 360
 cccctgggac aggggatacc cttggccac tttttgatgc aacaagaggg ctttgatgca 420
 gggtttgcca aaaatgatgc ctctctttg aggcctgatg ctttcgcac caattccacc 480
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<210> 6008

<211> 521

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-A6

<400> 6008

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 tctctccaat cttccatcaa cttaagctga gcaatcaaag tgaaaaaag aagaaaagta 180
 aaatccaaat agtatatgtg aaatctagca accggcaggg cgggcgcgca ccctgcgctg 240
 gatggggggc cggcacgaag ggcatcctt catcccttgc ttctcatgga ggtcgcgtgca 300
 tttggcacag acgacctggt gggcgcaggg gaggaacacc acggacatct cctcgtcaa 360
 gcacatgacg cactcccgtt cgcgctgtat atcgtaaaaa tcgagacctt ggggtactgc 420
 tgtgttgac aaaacttggg cattgttgtt ctttctccct tcaaaaagat gcaatgcata 480
 ggatttattg tcggctcccc acttgggggc agcaaccctt g 521

<210> 6009

<211> 532

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-A8

<400> 6009

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 aaaagaggca ccgccaatga tgtgttggtg gtagaaggct gctggggttg tcaaagcaag 180
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tagtagttgt tgttgttgta aataagcagc agggttcagt gtagacagtt gggtgaatgg 480
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<210> 6010

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-A9

<400> 6010

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gcagagttca atgcagctag ttggttgaat ggaagaaact gctgttgctg agagtaggca 240
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<210> 6011

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-B1

<400> 6011

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tgttggtagg aggccgctcg gtctgtcaaa gcaagttgga caaagggcaa caattgttgt 180
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tgtgtcaaga aggaagcacg gtttgctgca gctagctggc taaatggtag tagtatttgc 300
 tgctgcaaat aagcagcggg gttcagtgcg gccaatgggt taaatggaag aagttgttgt 360
 tgctgagagt aggcagtagc tagctggctg aatggtaata gttgttgctg caaataagca 420
 gcagggttca gtgtaga 437

<210> 6012

<211> 549

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-B11

<400> 6012

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 ttttaaacc cacccttatg gggggggggg ttttttgggc cccccccctt tggggggtaa 240
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<210> 6013

<211> 548

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-N6-B12

<400> 6013

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nacaagacan gattcagggg ggggggggtgg ttgtatggca gcaattgttg ctgctgtagg 180
aaggcggcga ccaatggggtt agccactacc aatggattaa gtaactgttg tcgctgttgt 240
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agcagctg 548

<210> 6014
<211> 522
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-B2

<400> 6014

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ttgccagagc tacttggttg atcacaggta gcacgagttg ct 522

<210> 6015
<211> 534
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-B3

<400> 6015

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 cagggttcag tgtaaacagt tggttgaatg gaaaaaattg ttgttgctga gagtagggag 480
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<210> 6016

<211> 526

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-B4

<400> 6016

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 tagaactctg ctaggtttgt caaagcaagt tggttgaatg gcagcaattg ttgcagttgt 180
 aagaggggtgc cagcgttagg cgcagcgtgc tggtagaacg gcaacaactg tggttgtgtc 240
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 aaataagcag gagagttcaa tgctgccagt tggttgaatg gaagaaattg ttgggggtag 360
 gcaacaggta gctggctgaa tggtagttgt tgttgttgca aataagaagc agagttcaat 420
 gcagctagtt ggttgaatgg aagaaactgc tgttgctgag agtaggcagc aaggtttgct 480
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<211> 530

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-B5

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gttgggtgaa tggaagaaac tgctgttgct gagagtaggc agcaaggttt gctagcacia 480
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<210> 6018

<211> 556

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-B6

<400> 6018

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gcccccccca gggggc 556

<210> 6019

<211> 393

<212> DNA

<213> Zea mays
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<210> 6020
 <211> 534
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-B8
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<210> 6021
 <211> 545
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-B9

<400> 6021

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tgtaggaagg cagcgaccaa tggggttagcc actgccaatg gattaagtaa ctgttgctgc 240
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tggtgctgtt gtaggtaggc ggcagggttc accatggcta gttgactaag cgctggcaga 480
aactgttgca gttgttgttg ttgctgggtt gcaactacgt ttgctagagc aagtgggttg 540
gatgc 545

<210> 6022

<211> 149

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-C1

<400> 6022

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<210> 6023

<211> 497

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-C11

<400> 6023

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taggtagacg gcagggttca ccatggctag ttgactgagc actggcataa actggtgcag 480
ctggttgtgt tgctggt 497

<210> 6024

<211> 516

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-C12

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gaattaaaaa aaacacacac ttccatatcg acatggcttc aataaacctc tttcagaggg 180
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<210> 6025

<211> 519

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-C3

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 gactggagga ccaagccgaa gatcgcttgg taccggtgct gcggctccac ctgcctgagc 420
 tgctggcaac actgctgccg caacgactgg cactgaggcg agcagtaggg cgtcgccgtc 480
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<210> 6026

<211> 496

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-C4

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 ttggacaaaag ggcaacaatt gttgtagttg taaaagggtt gcgggggttag ccccaaactg 180
 cttgtaaaaa ggcagcaact gttgctgtgt caaaaaggaa gcacgacttg ctgcagctag 240
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<210> 6027

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-C5

<400> 6027

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 gaaaaaggga atccctatta aagccagggg ggccatgggg gggaaaaaat tgcttgcca 360
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 aaaaaacaaa aacccccg 439

<210> 6028
 <211> 532
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-062-Q1-N6-C6
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 tgatgcaata aggtggtagg attcgtcaaa gcgagttggc taaatggcag caattgctgt 180
 tgttgtaaga aggcgacaat gtttgccaca tcctgtgggt agaatggcag caattgttgt 240
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 tgcaagtaag cagcagggtt caccagct agttgattga atggaagaaa ttgttggtgc 480
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<210> 6029
 <211> 513
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-062-Q1-N6-C7
 <400> 6029

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<210> 6030
 <211> 523
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-062-Q1-N6-C8

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<210> 6031
 <211> 533
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-062-Q1-N6-C9

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<210> 6032

<211> 523

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-D10

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<210> 6033

<211> 543

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-D12

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ccatgacacc cgccacatt tatatgtaag ggggcggggg ggcactcttt attcatcctt 180
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caa 543

<210> 6034

<211> 534

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-D2

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<211> 541
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 <213> Zea mays
 <223> unsure at all n locations
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<400> 6035

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509

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<212> DNA

<213> Zea mays

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<210> 6038

<211> 409

<212> DNA

<213> Zea mays

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<211> 529
<212> DNA
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<223> Clone ID: LIB3061-062-Q1-N6-D7

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<210> 6040
<211> 550
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<223> Clone ID: LIB3061-062-Q1-N6-D8

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ggttgaatgg aagaaactgc tgttgctgag agtaggcagc aaggtttcct agcacaagtt 480
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550

<210> 6041

<211> 516

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-D9

<400> 6041

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ggggtaggat tcgtcaaagc atgttggcta aatggcagca attgttgctg ttgtaagaag 180
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gcattaatgt ttcccacaac ctgtgggtaa aatggcaaca attgttgctg tcgcaagaaa 300
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gcatcagggc tcccgacaag ttggttaaat ggtagtagtt gttgtgctg caagtagaca 420
gcagggttca cccagctag ttgattgaat ggaagaaatt gttgttgctg gagataagca 480
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<210> 6042

<211> 539

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-E1

<400> 6042

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aactcataag aaactaaaag aggcaccacc aatgatgggt tgttggtaga atgctgctgg 120
gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga gggtgccagc 180
gttaggcgca gcgtgctggt agaacggcaa caactgtggt tgtgtcaaga aggtagcagg 240
gtcacacca gctagctggc tgaatggtag tagttgttgc tgctgtaaata aagcaggaga 300
gttcaatgct gtcagttggt tgaatggaag aaattgctgg gggtaggcag cagatagctg 360
gctgaatggt agttgttggt gttgcaaata agaagcagag ttcaatgcag ctagttgggt 420

gaatggaaga aactgctgtt gctgagagta ggcagcaagg ttgctagca caagttgttg 480
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<210> 6043

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-E11

<400> 6043

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taatagaaag aggagcctac tatagagcgg ctcaactgta tgttgtcttg cactcatgcc 180
gtacccggta ccccatcttt ttccaaaaaa aaaaatctgc taacttggat cagcaaatac 240
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aatctgcaaa aggatgatcg gtgctagcct caacaaaacc gacattttag tctaggttgc 360
tgccgatctg gatatcagga aagcaagccc caatgctttc tgcttacaaa gcttgggtgg 420
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<210> 6044

<211> 560

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-E12

<400> 6044

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acgccacaaa ctcatccaaa aacttcatta ttgaactata actcataagc aatctaaaag 120
gggcaccacc aatgatgggt tgttggtaga aactgttgg gttggggggg ggggttggtt 180
gaatggcagc aattgttgca gttgtaagag ggtgccagcg ttaggcatag cgtgcaggta 240
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gaatggaaga aattgctggg ggtaggcagc aactagctgg ctgaatggta attgttggtg 420

caaataagca gcagagttca atgcagccag ttggttgaat ggaagaaact gatgttgctg 480
agagtatgca gcaaggtttg ctagcacaag ttgttgtagt tgttgtgccc tgatgttttg 540
tgccaccaaaa tggaccaaag 560

<210> 6045

<211> 511

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-E2

<400> 6045

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tgctggggtt gtcaaagcaa gttggttgaa tggcagcaat tgttgcagtt gtaagagggt 180
gccagcgtaa ggccgagcgt gctggtagaa cggcaacaac tgtggttgta tcaagaaggt 240
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ttggttgaat ggaagaaact gctgttgctg agagtaggca gcaaggtttg ctagcacaag 480
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<210> 6046

<211> 514

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-E5

<400> 6046

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ccacgacaag gcaggggtca tcaaagagaa ctggttgat ggcagcaatt gttgctgctg 180
taggaaggca gcgaccaatg ggtagccac cgctagtga ttaagtaact gttgtcgctg 240
ttgtaggtac gcagcagagt tcgacacagt cagttggttg aatggaagta gttgttgcaa 300

gtaggcagca gggtttgcca cagctagctg agtaagagct ggtacaattt gttgcagcaa 360
 ctgttggtgc aacaactggt gttgcaggta tgtagggtgca ttgcccatag cgagcgggct 420
 agatgaaaga agttgttgct gttgtaggta ggcgataggg ttcaccatgg ctagttgact 480
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<210> 6047

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-E7

<400> 6047

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 ctgtcctgag tttccatgat acatccggag ctcttagtca gttcgcgggt gacattcaag 180
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<210> 6048

<211> 493

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-E8

<400> 6048

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 gctcgacttc ctgtcaagcg gctcttacca taccaagggt acacgatcca tcatgcaat 180
 accattgtag gttcttgttt tgtagacca aaccagccg atctatatga cagacccatc 240
 gttgatgggt gcattcttca agatcaccac gattccagac cttatgtagt acccttcttc 300
 cgggtgatca gcctcttgga tgcccttact gtttgggatc accacgttct tcccaatcct 360
 agcattcatg tcaatgatac agttccttat ctttgggttc cttcctattc caactgggac 420
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 catcacggag tcc 493

<210> 6049
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-062-Q1-N6-E9

 <400> 6049

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ggatgaacac agcactaaca actgacacag agcgaccttc aatcaaaaac acagatgggc   180
aacaacaaac acgagacgaa cgaagataaa cactctggac tagggtaaac aacacggtag   240
cgaacaggat aacttggccg cgcgggcccc accgctcagt tcttcagtt cccgtcggag   300
ttgccgtaac cgccgccact gttgccaccg acgtagccgc cgccaccacc accgtagccg   360
ccgccgccac caccgtagcc gccggcacct ccgtaacctc cgcccacatc acggaaccgc   420
ccacc                                             425
  
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<210> 6050
 <211> 193
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-062-Q1-N6-F1

 <400> 6050

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gcaataaggt ggtaggattc gtcaaagcat gttggctaaa tggtagcaat tgttggtggtt   180
gtaagaaggc aac                                             193
  
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<210> 6051
 <211> 533
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-062-Q1-N6-F10

<400> 6051

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acagcacata gtttcttcag tgggggacac cgccggcagc agcgtagggg catggagtcg 180
gctgctgcag gccgcacatc gccgtcagtt gctgcgctat ctgcgccgcc aacagccccg 240
cgacctggcc gctttgcggc tgcgtctgca ggatggactg gaggaccaag ccgaagatcg 300
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cgacgcactg gccaggaatc ggggtgctgc caacgccgca ggttcctgc agctggcacg 480
ggcttgatg cggctgttgg cacgggcatg ggtgtggctg gggatgaggc tgc 533

<210> 6052

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-F11

<400> 6052

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cctttaacct aaaaaaaaat aaaagagggg ggcccccaa gggggggggg ggggaaaaaa 120
accggtgggg ttgaaaaaaa aaggggggga aaggggaaaa attggggcaa ttaaaaaagg 180
gggccccctt tagggccaag ggtctgga aaacgaaaaa actggggggg ggaaaaaaag 240
ggggaagggc taaaaccaac tagctgggaa aaggggaaaa attttggctt ctaaaaaaa 300
acgggaaagt ccaatgcccc ccatggggaa aaaaaaaaaa aattgggggg ggaggaaaaa 360
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tgtgggg 427

<210> 6053

<211> 566

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-F12

<400> 6053

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ctgaaccatg tcaaacaaat gatccaattc tcttaacaaa atcaaaacca gtcacgtga 120

cgtgtttgtt ccgagtcacg aacttgtctt tattggggca ttttttcgc ctatggttcc 180

acctttctgc ttctgaaatt caatgtaccg caaagtgcta gaaaaagaat gcctctgtag 240

atggatcagc tacagagtta tcaacttggc tctccgttct aatcaattca atcaaactct 300

gaatcacagt gtttgtgatt tgtggaattc ctttctcaaa gaagtacaag tacttgttca 360

aaatttcaat aaatagggtt acagatccac tgctccccct tgtagcacta gccatctgtt 420

gagcagcatt tgcgattctc aaggcacgct tcaaacaaag gagaaccctt tcaccatcca 480

ttataccatc ttggtcatca gtccaaaaaa gatgtgaaca cgcataact gctcggcatt 540

gatcaggctt cttgagaagt ttgctg 566

<210> 6054

<211> 522

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-F2

<400> 6054

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tttaaaaccc aaacaaaaaa tttaattttt ttaagaaaac aaatttcggg ttagggcccc 180

cattgccgga ccccttcaaa attaaataaa aaaaagggcc cccccaacaa ggggtttttc 240

aaaggaaggg ttaaaaaaaa aaaactggtt taatggaaaa aatttttttt ttttttcaaa 300

aaaggaaccc cccaaggggt aacccctcc caagggataa aaaaactttt gccccttttg 360

aaggccccca caaaatttta ccacacccat ttgtttaaat gaaaacaact ttttaaaaaa 420

gccaaaagggt tttcccaaaa ttagctaata aaaacctgga acaatttggt ccaaaaactt 480

tttttgaagg cccaagggc cattgccac ccgaggcggc ct 522

<210> 6055

<211> 526

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-F3

<400> 6055

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aattgttgca gttgtaagag ggtgccagcg ttaggcgcag cgtgctggta gaacggcaac 180
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gcagcaaggt ttgctagcac aagttgttgt agttgttgct cctgatgtt ttgtgccaat 480
aaatgcacca aaggtaactg atgtaatagg gctgatgatt gttgga 526

<210> 6056

<211> 535

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-F5

<400> 6056

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<210> 6057

<211> 527
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-F6

<400> 6057

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cgctgggtct gtcaaagcaa gttggacaaa gggcaacaat tgttgtagtt gtaagagggt 180
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<210> 6058
<211> 533
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-F7

<400> 6058

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tttactatct gatacatctc aggactcatt agcacatact tagctggtat tattgcaaga 180
aagcaaccac ttgctgctgt cctcagatat acattttttt tggcagaata caagtggact 240
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catgggtgcy tccagatata gtctctaata cagtctcaac cttgtgaaat ctgacatctc 480
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<210> 6059
<211> 536
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-F8

<400> 6059

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acacaaacag aaacaaatac agtctcacac atagtctcac acatacagga acacacaaag 180
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tcggcgctcaa cttctttcct attgctcttt tttttatcct tgggtggggtt aagtggccaa 300
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caactccctc ggactcctgc ggcacaacat caactccctc tgctgtcaaa tacagttcgt 420
ccccaccacc atcaactccc tgtgctgtca cttcagttcg tccgggaacg tctgggtgggt 480
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<210> 6060
<211> 505
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-F9

<400> 6060

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505

<210> 6061

<211> 413

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<223> Clone ID: LIB3061-062-Q1-N6-G10

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tccccatata aaataagagg ggaacccaaaa ttttttaagg aaccttgaag taagcttgct 180
agctatgccc gtcacatcat atagatccat tcccgggcta gccatgtttg atatcataag 240
gcaatataca gagattaaac ttctctatac gttcccgaga cttgccaaga ttaaaagcaa 300
tcaattctgg aagcaggcat agaaaagtat tgacgaggaa atgccacgtt gcagatgtca 360
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<210> 6062

<211> 576

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-N6-G11

<400> 6062

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ataatctata acagctcaat gcgcagcagc tcagtttgcc gggtcggggg ggatttgctt 180
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gcgtgacggt acatcccttc gtcgttcacg gtggctgggt acgggcggag cttctcctgc 480
atgaagtcga cggcgggcgt gcanccgttg acggcggcat gaccttctat gatctctttg 540

atcctcttca tgagatacga aaagccttct gttgtc

576

<210> 6063

<211> 536

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-G2

<400> 6063

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cggacccagt taccgtatca cacgtaaaaa ttcacccac aagtacagga aactgtccct 180
gtccctgtca catgatcaag ggtagggaca cttattcatg ggtttatctt attatctatg 240
gaacactgaa cattacggct ttgacgcgcc agcacagccc agcacagcca cgtataggcg 300
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tgccggtgtg tccctgctgc ccgtaggcgc cgccggtcgt cgccgtggcg tgctggtcgt 480
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<210> 6064

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-G3

<400> 6064

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tttttttttg tggggggtaa cattttcaaa aaaaaaaaaa aaagttggaa aaaaaacaaa 120
aaaaaaaaa aaaaaaagcc ccccccaacg ggggggatgg ggaaaaaaaa aaacggtaca 180
ccaaaaaaag gggggaagaa aggaccaa atcacaaaaa aaaaaagggg gccccccaaa 240
aaaaaatccc ccaaaaaaaa acaaaaaaaa tttattgttt caaaaaagag aaaggggaaa 300
aaaaactggg ggtgggaaaa aaaaaaaagg ctggaagggt ttttaaaaaa acaaaaaacc 360
cccccttta aatgcgcccc aaggaaaaaa aggaagaagg gggggcccca aaaagtttcc 420

aaaaaggatt ttttccaaaa aaaaaaaaaa cagttcccc ccccc

465

<210> 6065

<211> 555

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-G4

<400> 6065

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actttgaata catacactag aaaaaacaca ccgggggtttt gggggctgca gaaaaaggga 120
gggctttttt gctgggggat caactgaatt aaagaggggg ggggggggct ggcacagact 180
gggtcggcgt ttttggtcct caagaaactc ggcagggggg gggctattta ctagtcaagg 240
ggggttcaga ttttggtttg attttatggg ccggaaaaag ggggcccaat gatattcatt 300
aacatttatt tattcgatgc atgagataca ggcgacgttt tcaaggacgc acacaaaggg 360
ggcaacctcc ttacttttat ttaatgacgg ggaggaacc aaacttttat tggctactac 420
gacgagggtg ctacgcgggg gcttttgggt cccattaatt cccatggggg gatactgacc 480
cgtatactat ttagttgggg accttgacga gcttaggacg ggacatgggc tctggtattt 540
gatcaggggg cgagc 555

<210> 6066

<211> 527

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-G5

<400> 6066

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tgctggggtt gtcaaagcaa gttggacaaa gggcaacaat tggtgtagtt gtaagagggt 180
tgcggggtta gccgcaaact gctttagaaa aggcagcaac tggtgctgtg tcaagaagga 240
agcagcactt gctgcagcta gctcgctaaa tggcagtagt atttgctgct gcaaataagc 300
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agtagctagc tggctaaatg gtaatagttg ttgctgcaaa taagcagcag ggttcagtgt 420
aaacagttagg ttgaatggaa gaaattggtt ttgctgagag tagggagaaa ggtttgccag 480
agctacttgg ttgatcacag gtagcacgag ttgctgcagc tgttgtg 527

<210> 6067

<211> 529

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-G6

<400> 6067

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tgggggtaca tctaatttag tatccaaaaa attaacacgc actttacaga taattgatgg 180
cgggtgtagaa cttctggagt taaaacaaag agaatgggat ttgcgcgctg acttgcaagc 240
atcggctatt ctttaccatc cagcaaatga ttcattgacga ggcggaggct ccttagctgc 300
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ttgcagatgt tttgaaaatc gccattggc ggctcttaat tttgtgtagt tctaattgact 420
ctgtaattggc agcatcatcg agtgcacctg gaagatcctg cttatttgca tacacaagga 480
caactgcacc tttaagttca tctcctcaa ggatggcatg gaattcttc 529

<210> 6068

<211> 540

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-G7

<400> 6068

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aaaactccat ctggtactaa tccagttaag ttcaaaataa aggacatgac accttacatt 180
atactagtat aataatatgt attatacgat actgccgtgc cagtgtatac tagctagcta 240
ggggcacgag gcgatgatgc ttgctgctgc ggctggcgtc ccgtccctcc tttcggcggg 300

gcctcctcca cctgtcgcgg cgccgaacca tccaagcgca cgcattggacg ccatgcactg 360
gcaggtatat ctttaatttg tagctagcta gttcatcctg acgatgtcca tgatgaggtt 420
gaggtccaag tgcgggtagt cgccgccgcc ggcagcetta gattcttcct cggaggcgag 480
gcagcagccg gtgacaatgg cgacgatgtc gatatactcg tcgtcgcccc gcgccgtggc 540

<210> 6069

<211> 133

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-N6-G9

<400> 6069

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aaaattttatt tttggggntt tttttgggga tgtttttatt ttgtgtttgg aaaagggtgt 120
ttgtgggagg ggg 133

<210> 6070

<211> 543

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-H1

<400> 6070

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taacttttta tttctgggtg gccacataca tcattcaaaa aatttattat tgaattacaa 120
ctaataatca atctaaaaga gggccccccc aagggggggg ttgttgtagg aggctgctgg 180
gtttgtcaaa gcaaggtgga caaagggcaa caattggtgt agttgtaaaa gggttgcggg 240
gttagcccca aactgcttgt aaaaaggag caactgttgc tgtgtcaaaa aggaagcacg 300
acttgctgca gctagctcgc taaatggcag tagtatttgc tgggtgcaaat aaacaggggg 360
gttcagggcg gccaattggt taaatggaaa aagttgttgt tgctgaaagt aggcaatagc 420
tagctggcta aatgggaata gttgttgctg caaataagca gcagggttca atgtaaacag 480
ttggttgaat ggaaaaaatg ttgttgctga aagtaggaaa aagtttgcca aaacacttgg 540

ttg

543

<210> 6071

<211> 548

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-H11

<400> 6071

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tggccacata catcatccaa aaactttatt attgaattac aactaataat caatctaaaa 120

gaggcaccac caatgatgtg ttggtggggg gggggggggg ggtttgtcaa agcaagttgg 180

acaaagggca acaattgttg tagttgtaag aggggtgcgg ggtagccgc aaactgcttg 240

tagaaaggca gcaactgttg ctgtgtcaag aaggaagcac gacttgctgc agctagctcg 300

ctaaatggca gtagtatttg ctgctgcaa taagcagcgg ggttcagtgc ggccaattgg 360

ttaaattggaa gaagttgttg ttgctgagag taggcagtag ctagctggct aaatggtaat 420

agttgttgct gcaaataagc agcagggttc agtgtaaaca gttggttgaa tggaagaaat 480

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acgagttg 548

<210> 6072

<211> 524

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-062-Q1-N6-H12

<400> 6072

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actgttgggg ggtgagggga agttnttga atggcagcaa ttgttgctgt tgtaagaggg 180

tgccagcggt aggcatagcg tgcaggtaga acggcaacaa ctgttggtgt gtcaagaagg 240

cagcagggtt cacatcagct agctggctga atgggagtag ttgttgctgc tgtaaataag 300

cagcagagtt caatgctgct agttgggtga atggaagaaa ttgctggggg taggcagcaa 360

ctagctggct gaatggtaat tgttggtgca aataagcagc agagttcaat gcagccagtt 420
 ggttgaatgg aagaaactga tgttgctgag agtatgcagc aaggtttgcg agcacaagtt 480
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<210> 6073
 <211> 530
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-062-Q1-N6-H3
 <400> 6073

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 ccaggacaac tatagttgtg gatataacaa tagtacatag atagtaccca acatgggtaa 120
 ctaatctcgc cgcaagccta gcacttgatc tccttaagac catgagagaa atagaggaa 180
 gtcggattag tggcaccatc cttgtaatat gcgaatacca cggacgcac atccttcacg 240
 ctctcaccaa caaaaaattg aaggctcttc agcttgctaa ggagaaactt ggttgcaccc 300
 tcgacaccct ttttgaactc atccgctttc tctggctcca acacagcagt gagattcttg 360
 atgtattttt taatgtaaga gacaaatgat ttcttgctaa aaggagggtg ctctgtaga 420
 cggaatgtgt caacaatgc aaccaccttc acggctgtgt catcaacgct ttcgtcctca 480
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<210> 6074
 <211> 542
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-062-Q1-N6-H5
 <400> 6074

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 aaaaaaggca cctccaacga tgggttgctg cctcgacaag acagggttta tcaaagagaa 180
 ctggttgat ggcagcaatt gttgctgctg taggaaggca ggcaccaatg ggttagccac 240
 tgctagtga ttaagtaact gttgctgctg ttgtaggtac ccagcaaagt tcgacatagt 300

cagttggttg aatggaagca gctgttgcaa gtaggcagca gggtttgcca caactagctg 360
 agtcaaagct ggtacaatct gttgcaacaa ttgtttgtgc aggtatgtag gtgcattggc 420
 cacagcgagc gggctaaata aaagcagttg ttgctgttgt aggtaggcgg cagggttcac 480
 catggctagt tgactgagcg ctggcaaaaa ctgttgacgc tgttgttgtg gctggtttgc 540
 aa 542

<210> 6075
 <211> 547
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-H6

<400> 6075

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 atcagacaaa aactttatta ttgaactata actcataaga aactaaaggg ggcaccacca 120
 atgatgggtt gttggtagaa tgctgctggg tttggcaagg gaggttggtt gaatggcagc 180
 aattgttgca gttgtaagag ggtgccagcg ttaggcgcag cgtgctggta gaacggcaac 240
 aactgtgggt gtgtcaagaa ggtagcaggg ctacaccag ctagctggct gaatggtagt 300
 agttgttgct gctgtaaata agcaggagag ttcaatgctg tcagttgggt gaatggaaga 360
 aattgctggg ggtaggcagc agatagctgg ctgaatggta gttgttggtt ttgcaaataa 420
 gaagcagagt tcaatgcagc tagttgggtt aatggaagaa actgctgttg ctgagagtag 480
 gcagcaaggt ttgctagcac aagttgttgt agttgttgtg cctgatgtt ttgtgccaat 540
 aaatgca 547

<210> 6076
 <211> 539
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-062-Q1-N6-H7

<400> 6076

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tgttggtagg aggctgctgg gtttgtcaaa gcaagttgga caaagggcaa caattgtttgt 180
 agttgtaaga gggttgctgg gtttagccgca aactgcttgt agaaaggcag caactgttgc 240
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 tgctgagagt aggcagtagc tagctggcta aatggtaata gttgttgctg caaataagca 420
 gcaggggttca gtgtagacag ttggttgaat ggaagaaatt gttgttgctg agagtaggga 480
 gaaaggtttg ccagagctac ttggttgatc acaggtagca cgagttgctg cagctgttg 539

<210> 6077

<211> 597

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-K6-A1

<400> 6077

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 catcttacca ttatcacctc tgttctctca acaaccgtca gccctattac agcagttacc 300
 tttggtccat ttggtggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc 360
 aaaccttgct gcatactctc agcaacatca gtttcttcca ttcaaccaac tggtctgcatt 420
 gaactctgct gcttatttgc aacaacaatt accattcagc cagctagttg ctgcctaccc 480
 ccagcaattt cttccattca accaactagc agcattgaac tctgctgctt atttacagca 540
 gcaacaacta ctaccattca gccagctagc tgatgtgagc cctgctgcct tcttgac 597

<210> 6078

<211> 596

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-K6-A12

<400> 6078

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tgaaccctgt cgcctacttg caacagcagt tgcttgcatc caaccactt gctctggcaa 120
acatagttgc ataccaaaa caacaacaat tgcaacagtt tctaccagcg ctgagtcaac 180
tagccatggg gagccctgcc gcctacctac aacagcaaca actgatttca tctagccctc 240
tcgctgtggt taatgcacct acatacctgc aacaacagtt gctgcaacag attgtaccag 300
ctctgactca gctagctgtg gcaaaccctg ctgcctactt gcaacagctg cttccattca 360
accaactgac tgtgtcgaac tctgctgagt acctacaaca gcgacaacag ttacttaatc 420
cactagcggg ggctaacca ttggtcgtg ccttcttaca gcagcaaaa ttgctgcat 480
acaaccagtt ctctttgatg aaccctgctt tgttgtggca gcaaccctc gttggagggtg 540
ccatctttta gattacatat gagatgtact cgataatggt gccctcatag cggcat 596

<210> 6079

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-K6-A4

<400> 6079

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agctctggga tgtcgtttc agcacaaaag cctgaagac agaggacacc aaaggcagct 180
catcagctaa ccgactgaga ctgcttaaata ctctgcctac aaaatcagct cctgtctata 240
gcctgcgggt ttctcggagg aaccttctgt ttgcctcggg tgctctcgcg taagctgcgt 300
gtttcgtaga atacagctag aactgttccg gttttgacat ggagtagtga agttggcatt 360
tcgcagactc cgctgtggat cctattgtag agctaataatt ttcgttagca atctcaacgg 420
cccagcatgt ntgc 434

<210> 6080

<211> 502

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-K6-A5

<400> 6080

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atcagtttct tccattcaac caactggctg cattgaactc tgctgcttat ttgcaacaac 120
aattaccatt cagccagcta gttgctgcct acccccagca atttcttcca ttcaaccaac 180
tagcagcatt gaactctgct gcttatttac agcagcaaca actactacca ttcagccagc 240
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ttgctttgac aaaccaaca gtgttctacc aacaacccat cattggtggt gccctetttt 420
agattgctta tgagttatag ttcaataatg aagttttttg gatgatgttt gtggcgctccc 480
agaaataaga aagtacattt ct 502

<210> 6081

<211> 602

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-K6-A6

<400> 6081

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agaagaaatt gcgcaggttg tccaatccag tgtgctgcct gacatgttca agggcaccta 120
tgaggctatc aaaaaaggca acccaatgtg gaaccagcta actgtcccag aagcgtcact 180
ctactcatgg gattccaaat ccacttacat tcatgagccc cttacttta aggacatgac 240
catgtcccca cctggcccct ctacagtga agatgcctac tgcttgcctga acttcgggga 300
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tttgaacgga gaagttggac ccaagaccat tcatgttcct actgnggaga agctttctgt 540
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<210> 6082

<211> 596

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-K6-A7

<400> 6082

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ctccttggtc tttctgcaag tgctgctacg gcgaccattt tcccacaatg ctcaacaagct 120

cctatagctt cccttcttcc cccgtacctc tcaccagcgg tgtcttcggt atgtgaaaac 180

ccaattcttc aaccctatag gatccaacag gcaatcgcag ctggcatctt acctttatca 240

cccttggttc tccaacaatc atcagcccta ttacagcagt tacctttggt gcattttattg 300

gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct tgctgcctac 360

tctcagcaac aacagtttct tccattcaac caactagctg cattgaactc tgcttcttat 420

ttgcaacaac aacaactacc attcagccag ctatctgctg cctaccccca gcaatttctt 480

ccattcaacc aactgacagc tttgaactct cctgcttatt tacagcagca acaactacta 540

ccattcagcc agctagctgg tgtgagccct gctaccttct tgacacaacc acaatt 596

<210> 6083

<211> 604

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-K6-A8

<400> 6083

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caatactcac aagctcctat agctgccctt cttcccccat accttccatc aatgaccgct 180

tcagtttgtg aaaaccagc ccttcaacct tacaggctcc aacaagcaat cgcaacaagc 240

aacttacctt tatcaccctt gttctttcaa caatcgccag ccctatcttt ggtgcagtca 300

ttggtacaaa ccatcagggc acaacagctg caacaactcg tgctaccagt gatcagccaa 360
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 ctagctactg cctactctca gcagcaacaa tttcttccat ttaaccaatt ggccgcactg 540
 aacctctctg cttatttcca gcagcaaata ctactaccat ttggccagct agctacaaca 600
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<210> 6084

<211> 577

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-K6-B1

<400> 6084

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 gccatggtga accctgccgc ctacttgcaa gagcagctgc ttgcatccaa cccacttgct 180
 ctggcgaaag tagttgcaaa ccagcaacaa caacagctac aacagtttct gccaacgctc 240
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 gtaccagctc tgactcaact agctgtggca aacctgttg cctacttgca acagctgctt 420
 ccattcaacc aactgactct gtcgaactct gctgcgtacc tacaacagcg acaacagtta 480
 cttaatccat tggtagtggc taaccattg gtcgccgct tcttacagca gcaacaattg 540
 ctgccatata accagttctc ttttgatgaa tctgtgc 577

<210> 6085

<211> 616

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-K6-B11

<400> 6085

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 ttataaaatc atagcctatc cattatctct aattggtgta tcgatgcgtg caatggaggt 360
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 ttgtttttca tttatacatg tcagtatttc attgcacgac taactgcac tcagtggatc 480
 atgcacattg tttgccatta gcatttgggc aaaaggagga atcaacattt gtgtatgcat 540
 gccatacgaa acttgtggta tagaagcaag aatgagccct tgtgtagttg ttaaatttgc 600
 tgtgcacata tttgct 616

<210> 6086
 <211> 608
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-063-Q1-K6-B2

 <400> 6086

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 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180
 gcttcagtat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240
 agcaacatac ctttatcgcc cttgttggtt caacaatcac cagccctatc tttggtgcag 300
 tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac 360
 caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420
 caactgtcta cactgaaccc tgctgcttat ttgcagcaac aactattacc atttagccag 480
 ctagctactg cctactctca gcaacaacaa cttcttccat ttaaccaatt ggccgcactg 540
 aaccccgctg cttatttgca gcagcaaata ctactgccat ttagcgagct agctgcagca 600
 agtcgtgc 608

<210> 6087
 <211> 142
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-063-Q1-K6-B5

 <400> 6087

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 tagatttctt atgagttata gttcaataat aaagtttttt gtctgatgtt tgtggcttcc 120
 cagaataaga aagtacattt ct 142

<210> 6088
 <211> 576
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-063-Q1-K6-B6

 <400> 6088

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 tgtggcggtt gtgcagaacc ctattcttca gcgggggggg ggccatcagg cactcgcagc 180
 tggcctctta cctttgtcac ccttggctct ccaacactca tcacccctct tacagcagtt 240
 acctttggtg catttatcgg ccacacaat cagggcgag catctacaac aacttgtgct 300
 agcacacctt gctgctgct ctacagcaaca gcagtttctt ctcttcgccc aactggctgc 360
 cttgcactct gcttcttatt tgtgcatcc tcggctacca ttcagccgc tatctgctgc 420
 ctaccccgcg cggtttcttt cattcagcca tctggcagcc ttggactctc ctgcttcttt 480
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 ggcccatcca ccggtgttgc cttctacca gcacac 576

<210> 6089
 <211> 606
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-063-Q1-K6-B8

<400> 6089

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cacacagctt tgctctggct cttggctccc ctgtccagct gtctctgtccg tccatcatgg 120
aggaaacgcc cagcccgcag ctctagccgc cgtcaatctc gtctcgtatc ggagtcgaag 180
gaagtaagag gcgggatggc atgaagcgac ctaccaagaa tgagaggctg ggcaaccccc 240
ggcacaagta ggaggaagaa cccgagcaac cgagccacag ggaggaggag gagatgggca 300
actgcggcac acgggaggag aatgccgtcg tcgctgcgca cgcgcaagtt cagcaactcc 360
acttgttaca acagccttcc aagaacgcca atgcagatag gaagcacacc tgcattgtcat 420
cagatataag tgacccttcc acacctagga aagttgaaga tgccaagaac atttccatat 480
acaacgatgt gattgccttc acattgtttg agctagagac aatcaciaag agcttccgtg 540
ttgattatgt tcttggcgaa ggaggatttg ggaccgttta caagggttac atagatgaaa 600
atgtca 606

<210> 6090

<211> 612

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-K6-C12

<400> 6090

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caatcctaca tgctacatga ggccatcgta gcaagcatct tacggtcatt agcattaacc 120
ctccaacagc catatgcctt attgcaacaa ccacccctag tgcattctgta tctccaaaga 180
atcgcgaggc aacaactaca acaacagttg ctaccaacaa tcaatcaagt agttgcagcg 240
aaccttgctg cttatctcca gcaacaacaa tttcttccat tcaatcaact agctgggggtg 300
aaccttgctg tctacttgca ggcacaacaa ctactaccat ttaaccaact tgtcgggagc 360
cctgatgcct tcttactgca acaacagctt ctgccattcc atctgcaagc tgtggaaaac 420
attgcttctt tcttgcgaca acaacaattg ttgccatttt acccacaggt tgtgggaaac 480
attaatgcct tcttgcaaca gcaacaattg ctgccattct acccacataa tgtggcaaac 540
attgttgctt tcttacaaca acaacaattg ctgccattta gccaatatgc tttagcgaat 600

cctaccacct ta

612

<210> 6091

<211> 584

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-K6-C2

<400> 6091

taacacacca agcgaacgca ctagcaacga cctaacacca atggctacca agatttagcc 60

ctccttgccg ttcttgccct tttagtgage gcaacaaatg cgttcattat tccacagtgc 120

tcacttgctc ctagtgccat tattccacag ttctctccac cagttacttc aatgggcttc 180

gaacatccag ccgtgcaagc ctacaggcta caactagcgc ttgcggcgag cgccttacia 240

caaccaattg cccaattgca acaacaatcc ttggcacatc taaccctaca aaccattgca 300

acgcaacaac aacaacaaca acagtttctg ccatcactga gccacctagc cgtggtgaac 360

cctgtcacct acttgcaaca gcagctgctt gcatccaacc cacttgctct ggcgaacgta 420

gctgcatacc agcaacaaca acagctgcaa cagtttatgc cagtgtctca tcaactagcc 480

atgggtgaac cctgccgtct acctacaact accttcatct agcccgtctg cgggtgggcaa 540

tgcacctacg tacctacaac aacaggtgct gcaacaaatt gtac 584

<210> 6092

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-K6-C3

<400> 6092

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aaccaatttc ccagttgcaa caacaatcct ttggcacatc aacaatacaa accatcgcaa 120

cgcaacagca acaacaattc ctaccagcac tgagccacct agcctggtga accctgccgc 180

ctacttgcaa cagcagttgc ttgcatcaaa cccacttgct ctggcaaacg tagttgcaaa 240

ccagccacaa caacagctgc aacagtttct gccagcgtc agtcaactag ccatggtgaa 300

ccct 304

<210> 6093
 <211> 592
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-063-Q1-K6-C5

<400> 6093

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 tccttatgct ccttgggtctt tctgcaagtg ttgctaccgc aaccattttc ccacaatgct 120
 cacaagctcc tatagcttcc cttcttcccc catacctctc accagcgggtg tcttcaatgt 180
 gtgaaacccc aattgttcaa ccctacagga tccaacaggc aatcgcaaca ggcattctac 240
 cattatcacc cttgttcttc caacaaccgt cagccctatt acagcagtta cctttgggtc 300
 atttgggtggc acaaaacatc agggcacaac aactacaaca acttgtgcta gcaaaccctg 360
 ctgcatactc tcagcaacat cagtttcttc cattcaacca actggctgca ttgaactctg 420
 ctgcttattt gcaacaacaa ttaccattca gccagctagt tgctgcctac cccaacaat 480
 ttcttccatt caaccaacta gcaacattgg aactctgtg gttatttaca gcaacaacaa 540
 ctactaccat ttcaaccagc tagcttgatg tgagccctgc tgcccttttg ac 592

<210> 6094
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-063-Q1-K6-C6

<400> 6094

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 ttcttccatt caaccaactg acagctttga actctcctgc ttatttacag cagcaacaac 120
 tactaccatt cagccagcta gctgggtgta gccctgctac cttcttgaca caaccacaat 180
 tgttgccgtt ctaccagcac gctgcgcta acgctggcac cctcttaca ctgcaacaat 240
 tgctgccatt caaccaactt gctttgacaa acccaacagc attctaccaa caaccatca 300
 ttggtggtgc cctcttttag atttcttatg agttatagtt caataataaa gttttttgct 360

tgatgtttgt ggcttcccag aaataagaaa gtacatttct ag

402

<210> 6095

<211> 490

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-K6-C8

<400> 6095

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gtctcggcgg cccagctggt gactctcggg ctatcactcc tctgcgctgt cgccggcccc 120
gcccgcgcgc agaactgcgg ctgccagcca aacgtatgct gcagcaagtt tggctactgc 180
ggcacgaccg acgagtactg cggcgacggg tgccagtcgg gcccgcgccg ctccggcgcc 240
ggcggcagca gtggcgccgg tggcgcaaac gtggctagcg tcgtcaccgg ctccctcttc 300
aacggcatca agagccaggc cgggagcggg tgcgagggca agaacttcta caccgggagc 360
gcgttccctga gcgcgctcaa ggcgtaccca ggcttcgccc atggcggggc gcaggtgcag 420
ggcaagcgcg agatcgccgc ctttttcgcg caccgcaagc acgagaccgg gcatttctgc 480
tacatcagcg 490

<210> 6096

<211> 613

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-K6-C9

<400> 6096

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gccagccacc gccgcgggtt catctaccgc cgccggtgca tctgccacct ccggttcacc 120
tgccacctcc ggtgcatctc ccaccgccgg tccacctgcc gccgcgggtc cacctgccac 180
cgccggtcca tgtgccgccc ccggttcacg tgccgcccgc accatgccac taccctactc 240
aaccgccccg gctcagcct catccccagc cacacccatg cccgtgccaa cagccgcac 300
caagcccgtg ccagctgcag ggaacctgcg gcgttggcag caccgccatc ctgggcccag 360
gcgtcgagtt tctgaggcat cagtgcagcc cgacggcgac gccctactgc tcgcctcagt 420

gccagtcggt gccgcagcag tgttgccagc agctcaggca ggtggagccg cagcaccggt 480
accaggcgat cttcggcttg gtcctccagt ccatactgca gcagcagccg caaagcggcc 540
aggtcgcggg gctgttggcg gcgcagatag cgcagcaact gacggcgatg tgcggcctgc 600
agcagccgac tcc 613

<210> 6097

<211> 613

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-K6-D11

<400> 6097

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cggatgttga gtaccgctgc ttcgtcggcg gcctcgctg gccacggac gaccactccc 120
tccacaacgc cttcagcacc tacggcgagg tcctcgagtc caagatcatc ctcgatcggg 180
agacgcagag gtgccgcggc ttcggcttcg tcaccttctc cacggaggag gcgatgcgga 240
acgccatcga gggcatgaac ggcaaggagc tggacggccg caacatcacc gtcaacgagg 300
cccagtcctg cggcggccgt ggaggcggcg gcggcggcgg gtacgggtggg ggccgtggag 360
gcggcgggcta cggcgggtggc gggcgccgtg atggcggcgg cggctacggc ggtggcggcg 420
gctacgggtg tggcggcggc ggctacggtg gtgggtggcg cggctacggc ggtggcaacc 480
gtggcggcgg ctacggcaac tccgacggga actggaggaa ctgagcggtg gggcccgcgc 540
ggccaagtta tcctgttcgc taccgtgttg ttaccctag tccagagtgt ttatcttcgt 600
tcgtctcgtg ttt 613

<210> 6098

<211> 615

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-K6-D12

<400> 6098

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ccatggtggt ggtgatggtg ctcctccagc agtggcctc ctcgtactcg tacaccgtcg 120

cggccccacgc cgatgctgct ggcgtgcttg gccgcaaggc gggcgctcgtc gtcgaggggg 180
 cgggggtgga taatatcgcc ggctgggccc gggaggtacg cagtcattctt cgacgccggc 240
 agtacgggga gtcgggtgta catcttccgg ttcggcaggc agatggacct cctccgcattc 300
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 tcatggctta tgaaaagaac ccctgttaag cttggagcga ctgctggatt acgccttatc 480
 ggaaaccaac aagcagacga aatcctcgat gcggtcagag acctgggtcca caagaagagc 540
 aaattccagt acaagcccaa ctggatcaat gttcttgagg ggtctcagga agcatcctac 600
 ctatgggtcg ctctg 615

<210> 6099

<211> 150

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-K6-D5

<400> 6099

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 ccctctttta gatttcttat gagttatagt tcaataataa agctgtttgt ctgatgtttg 120
 tggcttccca gaaataagaa gtacatttct 150

<210> 6100

<211> 606

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-K6-D8

<400> 6100

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 gatattttcc ctcttatgc tccttgctct ttctacatgt gttgctaacg cgacaatttt 120
 ccctcaatgc tcacaagctc ctatagcttc cttcttccc ccataccttc catcaattat 180
 agcttcagta tgtgaaaacc cagctcttca accatatagg cttcaacaag caatcgcagc 240

aagcaacata cctttatcgc ccttggtgtt tcaacaatca ccagccctat ctttgggtgca 300
gtcattggta caaacatca gggcacaaca gctgcagcaa ctctgtgtac ctgtgatcaa 360
ccaagtagct ctggcaaacc tttctcccta ctctcagcaa caacaatttc ttccattcaa 420
ccaactgtct aactgaacc ctgctgttta tttgcagcaa caactattac catttagcca 480
gctagctact gctactctc agcaacaaca acttcttcca tttaaccaat tggccgcact 540
gaaccccgct gcttatttgc agcagcaaat actactgcc a tttagcgagc tagctgcagc 600
aagtcg 606

<210> 6101
<211> 615
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-K6-D9

<400> 6101

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gggaggacgc caaggccaag gagtgcggcc tccacaaggg caacatcgac aaggacggcc 120
aggcggcggc ggcggcggcg gcggcccca ggactgcaa cggaacggc tcggcgggcg 180
ccccggacat cttcgagagc cccgccgtcg tgtccctcac ccgcgccggg gtcgagaacc 240
tgctgcgect ggagagccgc gccgagccgt ggctcgtggt gctgtacgcg ccctggtgcc 300
cgttctgcc a ggccatggag gcctcctacg tggagctggc cgagaggctg gcgggggtccg 360
gcggcggtgaa ggtggcccg ttcgcgcgcg acggcgagca gaagccgttc gctcaggccg 420
agctgcagct gcagagcttc ccacccgtgc tcctgttccc gagccgcacc gcccggccca 480
tcaagtaccc gtccgagaag agggacgtcg actcgctcct cgcttcgtc aacagcctcc 540
ggtgaggccc gccagtgagc gagaaccatc gttctctgtc agtatgtacc gtgttacatg 600
ttggtgtcca tctag 615

<210> 6102
<211> 561
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-K6-E2

<400> 6102

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aactacaaca acttgtgcta gcaaacccttg ctgcctactc tcagcaacag cagtttcttc 120
cattcaacca actagctgca ttgaactctg cttcttattt gcaacaacaa caactaccat 180
tcagccagct acctgctgcc taccctccagc aatttcttcc attcaaccaa ctggcagcat 240
tgaactctcc tgcttattta cagcagcaac aactactacc attcagccag ctagctggtg 300
tgagccctgc taccttcttg atacaaccac agttgttgcc gttctaccag cacgctgcgc 360
ctaacgctgg caccctctta caactgcaac aattgctgcc attcaaccaa cttgctttga 420
caaaccagc agcgttctac caacaaccca tcattggtgg tgccctcttt tagatttctt 480
atgagttata gttcaataat aaagtttttt gtctgatgtt tgtggcttcc cagaaataag 540
aaagtacatt tctagattct t 561

<210> 6103

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-K6-E3

<400> 6103

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agagaggcta agatcgccgc ggcggcggcg gcggcgctgt gcttcgcggc cctggtggcc 120
gtggccgtct gccaaaggca ggtcgagcgg cagaggctca gggacctgca gtgctggcag 180
gaggtccagg agagcccgtc cgacgcgtgc cgccaggtec tcgaccggca gctaaccggc 240
ggcggcgggc ggcggcggtt tggcccgttc cggtggggca ccgggctccg gatgcggtgc 300
tgccagcagc tccaggacgt gagccgcgag tgccgctgcg ccgccatccg gagcatggtc 360
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<210> 6104

<211> 604

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-K6-E4

<400> 6104

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atgatcgggc gggccgggaa cctcaccgtc ttcattcagc cgccgtctcc tgctagcacg 120
ccgccccggc ctttgccac gccgcccgcc gagtctccgc gctcggattt ctctacaccc 180
acccgacaga ggatagcccc gtcgccctcc ctttctccct cgccgcagaa acacgagagc 240
ccgttcggcg cgcttgcggt ggtgttcacc ccgccccgc cgtcggctcc tgtgaaggtc 300
gcgccgcgcg cggtgcaggt gccgcccgcg cagtacgaga aggcgtccgc gggaggcaag 360
cacgacggat cggcgtttgg cttcttctgg gacgccgtcg cgcgctcca ggaagcgac 420
gccagcctcg acgagtacat ggctacctgg ttccgggttg atcagtcctaa gtaccagtgg 480
gcgctcaacg actactacga ggccacaggc aaggacgtgg attgtgtaaa gggtagtaag 540
ctgnaagagc ttactactaa agtcagaaaa gtctggaaaa aaaagcaact ttgtttttgt 600
gttg 604

<210> 6105

<211> 613

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-K6-E5

<400> 6105

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atittgcttc cttatgctcc ttggtcttcc tgcaagtgtt gctaccgcaa ccattttccc 120
acaatgctca caagctccta tagcttcctt tcttccccca tacctctcac cagcgggtgc 180
ttcaatgtgt gaaaacccaa ttgttcaacc ctacaggatc caacaggcaa tcgcaacagg 240
catcttacca ttatcaccct tgttcttcca acaaccgtca gccctattac agcagttacc 300
tttggtccat ttggtggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc 360
aaaccttgct gcatactctc agcaacatca gtttcttcca ttcaaccaac tggctgcatt 420
gaactctgct gcttatttgc aacaacaatt accattcagc cagctagttg ctgcctaccc 480
ccagcaattt cttccattca accaactagc agcattgaac tctgctgctt atttacagca 540

gcaacaacta ctaccattca gccagctagc tgatgtgagc cctgctgcct tcttgacaca 600
acaacagttg ttg 613

<210> 6106
<211> 612
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-063-Q1-K6-E6

<400> 6106

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cagacagaca gacagagaga tggagcggat gagctcgtcg gtgcagtcct ggggtggagga 120
acacaagctc tcgtccatcg gagccgtgtg ggcgacggcg gtgggcgcggt cgggtggcgta 180
cagccggcgg agggcgccgg cgcgggccac gagcctgcgc ctcattccacg ccaggatgca 240
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cagcagcgag aggaggcaga ggcaggagga cctggactac ggcttctact cccagctgcc 360
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actagcagtg agtgaccagt gagccagtga cttccgcctt cagatgcata catcagatca 480
gagagaagga aggaagaggg acaataaata gattaattag tactagtagc aataataata 540
attgcttgcc tgtttgccaa tcaatgatac atgacgtggc gcctgacccct gttcgtcacg 600
gcccataaac cc 612

<210> 6107
<211> 505
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-K6-E7

<400> 6107

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ttttctccat tcaaccaact aggttcattg aactctgctt cttatttgca acaacaaca 120
ctaccattca gccagctacc tgctgcctac cccagcaat ttcttccatt caaccaacta 180

gcagcattga actctcctgc ttatttacag cagcaacaac tactaccatt cagccagcta 240
gctggtgtga gccctgctac cttcttgaca caaccacagt tgttgccgtt ctaccagcac 300
gttgcgcta acgctggcac cctcttaca ctgcaacaat tgctgccatt caaccaactt 360
gctttgacaa acccagcagt gttctaccaa caacccatca ttggtggtgc cctcttttag 420
atttcttatg agttatagtt caataataaa gttttttatc tgatgtttgt ggcttcccag 480
aaataagaaa gtacatttct agatt 505

<210> 6108

<211> 608

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-K6-E8

<400> 6108

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tattccacaa tgctcacttg ctccatagtg cattattcca cagttcctcc ctccagttac 180
ttcaatgggc ttggaacacc cagctgtgca agcctacagg ctacaacaag cgcttgcggc 240
gagcgtctta caacaaccaa ttgcccaatt acaacaacaa tccttggcac atctaaccat 300
aaaaccatc gcaacgcaac agcaacaaca atttctacca gcaactgagcc aactagctgt 360
ggtgaaccct gtcgcctact tgcaacagca gttgcttgca tccaaccac ttgctctggc 420
aaacatagtt gcataccaac aacaacaatt gcaacagttt ctaccagcgc tcagtcaact 480
agccatggtg aaccctgccg cctacctaca acagcaacaa ctgatttcat ctagccctct 540
cgctgtggtt aatgcaccta catacctgca acaacagttg ctgcaacaga ttgtaccagc 600
tctgactc 608

<210> 6109

<211> 605

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-K6-F10

<400> 6109

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gataaagtct gcctgctcgg ttgtggtggt cctactggtc ttggagcggg gtggaatact 120
gcaaaggttg aatctggctc agttgttgct gtttttggcc ttggaacagt tggacttgcg 180
aggggcgggg ggagcaaaag ctgctggtgc ttctcgagtt attggcattg acatcgacaa 240
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tgacaaaccg atacagcagg tcctggtcga tcttacagat ggcggcgtgg attacagctt 360
tgagtgcatt ggaaatgttt cggttatgag ggctgcactg gaatgctgcc acaagggtg 420
gggaacctcc gtcacgtcgc gcgtcgccgc ctctggccag gagatcgcca cacgaccatt 480
ccagctcgtg actgggctg tctggaaggg aaccgcnttt cggggcttca agagccggac 540
ccaggtccca tggcttggtg acaagtacat gaaaaaggaa attaagtgga cgagtacatt 600
acgca 605

<210> 6110

<211> 609

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-K6-F12

<400> 6110

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tcgtgcgag cgccgcctcc agtacaagcg gcggctgtgg ctgccagaca ccaccgtttc 180
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gcggcgctcg cagcgtcggc agcccgttcc tgggccagtg cgtcgagttc ctgaggcacc 360
agtgcagccc ggccggcgac ccctacggct cgccacagtg ccaggcgctg cagcagcagt 420
gtgccacca gatcaggcag gtggagccgc tgcaccggtg ccaggcgaca tacggtgtgg 480
tcctgcagtc ctctctgcag cagcagccgc agggcgagct cgccggcgctg atggcgcccc 540
atgtagcgca gcagctgacg gcgatgtgcg gtctgcagct gcagcagcca ggtccctgcc 600

cttgcaacg

609

<210> 6111

<211> 610

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-K6-F2

<400> 6111

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ggtgttgctc gttgccctcg ctctcctggc tctcgctgcg agcgccacct ccacgcatac 120

aagcggcggc tgcggtgcc agccaccgac gccgggtcat ctaccgccgc cgggtgcatct 180

gccacctccg gttcacctgc cacctccggt gcattctcca ccgccggtcc acctgccgcc 240

gccgggtccac ctgccaccgc cgggtccatgt gccgccgccg gttcatctgc cggccgccacc 300

atgccactac cctactcaac cgccccggcc tcagcctcat cccagccac acccatgccc 360

gtgccaacag ccgcatccaa gcccggtgcca gctgcaggga acctgcggcg ttggcagcac 420

cccgatcctg ggccagtgcg tcgagttcct gaggcatcag tgcagcccga cggcgacgcc 480

ctactgctcg cctcagtgcc agtcgttgcg gcagcagtgt tgccagcagc tcaggcaggt 540

ggagccgcag caccggtacc aggcgatctt cggcttggtc ctccagtcca tcctgcagca 600

gcagccgcaa 610

<210> 6112

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-K6-F3

<400> 6112

gaaaaaaaaa ctgatgtcat ttcgggtatt ctcaaccacc gttcatgac aaacggacag 60

tccttctttg atccatttac tgaaatctac taattcttga cgaccgcacc acatgttatg 120

tttgtgacaa gtgattaaat gtcttttttt atgggtgtgc acatttcttg ccgttgcgat 180

gcggaacgct gctggtaacc aatcgtcggt agtgcctgac ccttcattccc tcttgcccct 240

cttacctaca ggggccctta tgggctcgct gtggctcggc tcgctcgcta acgcctcagg 300

ctctgcgggcg cctagggctc tccttttgcg ccccggttctt tctggcggtc ctgcctctct 360
cctcttagc 369

<210> 6113
<211> 604
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-063-Q1-K6-F5

<400> 6113

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tttccctect tatgctcctt gctctttcta catgtgttgc taacgcgaca attttccctc 120
aatgctcaca agctcctata gcttcccttc ttcccccata ccttccatca attatagctt 180
cagtatgtga aaaccagct cttcaaccat atagggttca acaagcaatc gcagcaagca 240
acataccttt atcgcccttg ttgtttcaac aatcaccagc cctatctttg gtgcagtcac 300
tggtacaaac catcagggca caacagctgc agcaactcgt gctacctgtg atcaaccaag 360
tagctctggc aaacctttct cctactctc agcaacaaca atttcttcca ttcaaccaac 420
tgtctacact gaaccctgct gcttatttgc agcaacaact attaccattt agccagctag 480
ctactgcta ctctcagcaa caacaacttc ttccatttaa ccaattggcc gcactgaacc 540
ccgctgctta ttgacagcag caaatactac tgccatttag cgagctagct gcagcaagtc 600
gtgc 604

<210> 6114
<211> 608
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-K6-F6

<400> 6114

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caagatatta gccctccttg cgcttcttgc ccttttagtg agcgcaacaa atgcgttcat 120
tattccacag tgctcacttg ctcttagtgc cagtattcca cagttcctcc caccagttac 180

ttcaatgggc ttcgaacatc cagccgtgca agcctacagg ctacaactag cgcttgcggc 240
 gagcgctta caacaaccaa ttgcccaatt gcaacaacaa tccttggcac atctaaccct 300
 acaaaccatt gcaacgcaac aacaacaaca acagtttctg ccatcactga gccacctagc 360
 cgtggtgaac cctgtcacct acttgcaaca gcagctgctt gcatccaacc cacttgctct 420
 ggcgaaagta gctgcatacc agcaacaaca acagctgcaa cagtttatgc cagtgtcag 480
 tcaactagcc atggtgaacc ctgccgtcta cctacaacta ctttcatcta gcccgtcgc 540
 ggtgggcaat gcacctacgt acctacaaca acagttgctg caacaaattg taccagctct 600
 gactcagc 608

<210> 6115
 <211> 606
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-063-Q1-K6-F9

 <400> 6115

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 aacaacaaca tcaccaacaa tcacaaggcc atgtgcaaca acacgaacag agccatgagc 120
 aacaccaagg acagagccat gagcaacaac atcaacaaca attccagggt catgacaagc 180
 agcaacaacc acaacagcct cagcaatatc agcagggccca gngaaaaatc acaacagcaa 240
 caatgtcatt gccaggagca gcaacagact acaagggtgca gctataacta ctatagcagt 300
 agtcaaate taaaaaattg tcatgaattc ctaaggcagc agtgcagccc tttggtaatg 360
 ccttttctcc aatcacgttt gatacaacca agtagctgcc aggtattgca gcaacaatgt 420
 tgtcatgata ttaggcagat tgagccacaa tacattcacc aagcaatcta caacatggtt 480
 caatccataa tccaggagga gcaacaacaa caaccatgtg agttatgtgg atctcaacaa 540
 gctactcaaa gtgcggtggc aatcttgaca gcagcacaat acctaccatc aatgtgcggc 600
 ttgtac 606

<210> 6116
 <211> 603
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-063-Q1-K6-G10

<400> 6116

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tccctaacct taagtcccta agcgtagacg gcggggggcg gcggtgcgag gcaagctgca 120
cagcaacacg ggccacgggc gcggcctccg cctccgcctc cacgcttctg ctgctaggct 180
gcaagggcgg cggcgcgcg cggtgggcgg cggacagctg gccaggtcca gccagtagt 240
ccaggtgacg aggtccgcac tccgcaacgg ttctggcggt ctgcagctga ggatagacga 300
gagaggaagt gaggatttat attagtgatt tacaaggcaa cttgaaagac agcagggttg 360
catcccacaa tgtcagctcc caacagtgat agcaacatgc agcagctagt ccctatagca 420
ccaccaggaa aggcttctgg tgggtgacagt gggaaggagc tggttgtggc agatcctgca 480
ggtaagagat catgaggtgt aaaactgcga gaggatgagg aagacctgga ggtgaagctc 540
aggcgcatca tggagaatgt ccctgtgcgt gtcagtaaca catcagggtc atctgctggc 600
tct 603

<210> 6117

<211> 586

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-K6-G12

<400> 6117

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caccatgagg gtgttgctcg ttgcctcgc tctcctggct ctgctgcga gcgccacctc 120
cacgcataca agcggcggtc gcggtgccca gccaccgccg ccggttcacg taccgccgcc 180
ggtgcatctg ccacctccgg ttacactgcc acctccggtg catctccac cgccggtcca 240
cctgcgcgcg ccggtccacc tgccaccgcc ggtccatgtg ccgcgcgcgg ttcacttgcc 300
gccgccacca tgccactacc ctactcaacc gcccggcct cagcctcatc cccagccaca 360
cccatgcccg tgccaacagc cgcattcaag cccgtgccag ctgcaggga cctgcggcgt 420
tggcagcacc ccgatcctgg gccagtgctg cgagtttctg aggcatcagt gcagcccgac 480
ggcgacgcc tactgctcgc ctcatgcca gtcgttgccg cagcagtggt gccagcagct 540

caggcaggtg gagccgcagc accggtacca ggcgatcttc ggcttg

586

<210> 6118

<211> 298

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-K6-G4

<400> 6118

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ctccaacaag caatcgcagc aagcaacata cctttatcac ccttgtttca acaatcgcca 120

gccctatctt tgggtgcagtc attggtacaa accatcaagg cacagcagct gcagcaactc 180

gtgctacctg tgatcaacca agtagctctg gcaaaccctt ctcctacta tcagcaacaa 240

caatttttnc ttccatttca accaactatc tacactgaac cctgctgctt atttgcag 298

<210> 6119

<211> 600

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-K6-G7

<400> 6119

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aagatattag ccctccttgc gcttcttgcc ctttttgtga gcgcaacaaa tgcgttcatt 120

attccacaat gctcacttgc tcttagtgcc attattccac agttcctccc accagttact 180

tcaatgggct tcgaacacct agctgtgcaa gccaacatgc aacaacaagc gcttgcgggc 240

agcgtettac aacaaccaat tgcccaattg caacaacaat ccttgccaca tctaacaata 300

caagccatca caacgcaaca gcaacaacag ttcctaccag cactgagcca cctagccatg 360

gtgaaccctg ccgcctactt gcaagagcag ctgcttgcat ccaaccact tgctctggca 420

aacgtagttg caaaccagca acaacaacag ctacaacagt ttctgccaac gctcagtcaa 480

ctagccatgg tgaaccctgc cgcctacgta caacaacaac aactgctttc atctagcccg 540

ctcgctgtgg gcaatgcacc tacatacctg caacaacaat tgttgcaaca gattgtacca 600

<210> 6120

<211> 621

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-K6-G8

<400> 6120

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tgcttcgtcg gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc 180
acctacgggg aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc 240
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aacggcaagg agctggacgg ccgcaacatc accgtcaacg aggcccagtc ccgcggcggc 360
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ggcggtacg gtggtggtgg cggcggttac ggcggtggca accgtggcgg cggctacggc 540
aactccgacg ggaactggag gaactgagcg gtggggcccg cgcggccaaag ttatcctgtt 600
cgctaccgtg ttgtttaccc t 621

<210> 6121

<211> 580

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-K6-G9

<400> 6121

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ctgcaagtgt tgctaccgca accattttcc cacaatgctc acaagctcct atagcttccc 120
ttcttccccc atacctctca ccagcgggtg cttcaatgtg tgaaacccca attgttcaac 180
cctacaggat ccaacaggca atcgcaacag gcactcttacc attatcacc ttgttccctc 240
aacaaccgtc agccctatta cagcagttac ctttggtcca tttggtggca caaaacatca 300
gggcacaaca actacaacaa cttgtgctag caaaccttgc tgcatactct cagcaacatc 360

agttttcttcc attcaaccaa ctggctgcat tgaactctgc tgcttatttg caacaacaat 420
taccattcag ccagctagtt gctgcctacc cccagcaatt tcttccattc aaccaactag 480
cagcattgaa ctctgctgct tatttacagc agcaacaact actaccattc agccagctag 540
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<210> 6122

<211> 614

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-K6-H5

<400> 6122

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acaagctcct atagcttctt ttcttcccc atacctctca ccagcgggtg cttcagtatg 180
tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgcagcag gcattcttacc 240
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tttggttgca caaaacatca aggcacaaca actacaacaa cttgtgctag gaaaccttgc 360
tgctactct cagcaacagc agtttcttcc attcaaccaa ctggctgcat tgaactctgc 420
tgcttatttg caacaacaac taccattcag tcagctagct gctgcctacc cccagcaatt 480
tcttccattc aaccaactgg cagcattgaa ctctgctgct tatttacaac agcaacagct 540
accaccattc agccagctag ctgatgtgag ccctgttgcc ttcttgacac aacaacagtt 600
gttgccgttc tacc 614

<210> 6123

<211> 567

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-K6-H7

<400> 6123

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gctcctgcgc tatgatcacc aagataggct cactgcacgt gaagctatgg cacatcccta 120
 cttcctccaa gtcagagctg tggagaacag tagaacgaga ccacaataat cgttgtctac 180
 accctcgaaa tgaagttggt gctaatttct ggaacatcat aggctaaaac cgttcaataa 240
 gcatctcgct ccaggaatct gggccatgac tccgtggcag tgaatcagat agtatgggtc 300
 gcatcatgtg ggcaaccttg gcagatgttt ttattgttgt ctttaatctt gggactactg 360
 tagctttaaa cctacaggct gtgcttgaat gacatgatat tcatatcata tcgtctcctg 420
 tgggtgggata tgaaattgta tggtatcttt aaacataaac atactgggtg tattatgggtg 480
 tgctattatg tatgtatgat tcttatttna aaaaaaaaaa anaaaaaaaa aaaaaaaaaa 540
 aaaaaaaann aaaaaaaaaa. anaaaaaa 567

<210> 6124

<211> 533

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-A1

<400> 6124

agaaatgtac tttcttattt ctgggacgcc acaaacacat caaaaaactt cattattgaa 60
 ctataactca taagcaatct aaaagaggca ccaccaatga tgggttggtg gtagaacact 120
 gttggggttg tcaaagcaag ttggttgaat ggcagcaatt gttgcagttg taagaggggtg 180
 ccagcgttag gcatagcgtg caggtagaac ggcaacaact gttggttgtg caagaaggca 240
 gcagggctca catcagctag ctggctgaat ggtagtagtt gttgctgctg taaataagca 300
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 agctggctga atggtaattg ttgttgcaaa taagcagcag agttcaatgc agccagttgg 420
 ttgaatggaa gaaactgatg ttgctgagag tatgcagcaa ggtttgctag cacaagttgt 480
 tgtagttggt gtgccctgat gttttgtgcc accaaatgga ccaaaggtaa ctg 533

<210> 6125

<211> 553

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-A10

<400> 6125

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taggaaacac atgccggaat gagggcacca ttatcgagta catctcatat gtaatctaaa 120
agaggcacct ccaacgatgg gttgctgcct cgacgaggac ggggtttatc aaagagaact 180
ggttgtatgg cagcaattgt tgctgctgta ggaaggcagc gaccaatggg ttagccactg 240
ctagtggatt aagtaactgt tgctgctggt gtaggtacgc agcagagtgc gacatagtca 300
gttggttgaa tggaagcagc tgttgcaagt aggcagcagg gtttgccaca actagctgag 360
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cagcgagcgg gctagatgaa agcagttggt gctgtttag gtaggcggca gggttcacca 480
tggctagttg actgagcgtt ggcagaaaact gttgcagctg ttgttgtggc tggtttgcaa 540
ctacgtttgc cag 553

<210> 6126

<211> 547

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-N6-A12

<400> 6126

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ggaaaccatg ccgctatgag ggcaccatta tcgagtacat ctcatatgta atctaaaaga 120
ggcacctcca acgatgggtt gctgccgcgg gggggggggg ttcacaaag agaactggtt 180
gtatggcagc aattgttgct gctgtaggaa ggcagcgacc aatgggttag ccaccgctag 240
tggattaagt aactgttgct gctgtttag gtacgcagca gagttcgaca cagtcagttg 300
gttgaatgga agcagctggt gcaagtaggc agcagggttt gccacagcta gctgagtcag 360
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gagagggcta gatgaaatca gttgttgctg ttgtaggtag gcggcagggt tcaccatggc 480
tagttgactg agcgttggt gaaactgttg caattgttgt tgttgttggg atgcaactat 540
gtttgcc 547

<210> 6127
 <211> 523
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-063-Q1-N6-A2

<400> 6127

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 attgaactat aactcataag aaactaaagg gggcaccacc aatgatgggt tgttggtaga 120
 aactgctgg gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
 ggggtgccagc gttaggcgca acgtgctggt agaacggcaa caactgtggt tgtgtcaaga 240
 aggtagcagg gctcacacca gctagctggc tgaatggtag tagttgttgc tgctgtaaatt 300
 aagcaggaga gttcaatgct gctagttggt tgaatggaag aaattgctgg gggtaggcag 360
 caggtagctg gctgaatggt agttgttgtt gttgcaaata agaagcagag ttcaatgaac 420
 ctagttggtt gaatggaaga aactgctgtt gctgagagta ggcagcaagg tttgctagca 480
 caagttgttg tagttgttgt gccctgatgt tttgtgccaa taa 523

<210> 6128
 <211> 526
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-063-Q1-N6-A3

<400> 6128

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 attatttgat tacaactaat aatcaatcta aaagagggca ccaccaatga tgtgttgttg 120
 gtaggaggct gctgggtttg tcaaagcaag ttggacaaag ggcaacaatt gttgaagttg 180
 taagaggggt gcgggggttag ccgcaaactg cttgtagaaa ggcagcaact gttgctgtgt 240
 caagaaggaa gcacgacttg ctgcaactag ctcgctaaat ggcagtagta tttgctgctg 300
 caaataagca gcgggggttca gtgcggccaa ttggttaaat ggaagaagtt gttgttgctg 360
 agagtaggca gtagctagct ggctaaatgg taatagttgt tgctgcaaatt aagcagcagg 420
 gttcaatgta aacagttggt tgaatggaaa aaattgttgt tgctgaaagt agggagaaa 480

gtttgccaga gctacttggt tgatcacagg tagcacgagt tgctgc

526

<210> 6129

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-A4

<400> 6129

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ggatttaaaa aaaaaccca cttaccggg gagccccggg gggaaaaaa agggccccc 180
gaaaaaaacc gggggtaaaa aaaggggccc attttggggg gaaaaataa aacaccccca 240
accgggaagc ggaaaaacc ccctgggggg cccctggcta aaggggtttt gggccaaaag 300
ggaccccca aaggtaaaa ggacaggcgg cccccccga ggaaagaaa ggccttcga 360
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<210> 6130

<211> 483

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-A5

<400> 6130

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ctgttgggtt tgtcaaagca agttggttga atggcagcaa ttgttgcagt tgtaaaagg 180
ggccagcgtt aggcatagcg tgcaggtaga acggcaacaa ctgttggtgt gtcaaaaagg 240
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cagcaaagtt caatgctgct agttggttga atggaaaaa ttgctggggg taggcagcaa 360
ctagctggct gaatggtaat tgttgttgca aataagcagc aaagttcaat gcaccagtt 420
ggttgaatgg aaaaaactga tgttgctgaa agtatgcaac aaggtttgct agcacaagcg 480
gac 483

<210> 6131
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-A6

<400> 6131

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aagcatttac cccaggccct acaaattggg gaaacaaaaa attaaggga ccaaacacag 120
ggaaaacggg cccccaaaaa aaaagggtcc cgccccacc ggggggtttt atttcacact 180
ttatttaggg gcggaaacga caaaaaaacc cctaaacca aaaaaaggg cactaccttg 240
aaaaccaggt ccctagccct gggaaaaagg agcccgccac tgccattggg gggaaaacgg 300
ggggggaact tgcccaaatt atgcccaact gccaggggg ggaaaaaaaa aggggggagg 360
cccccatggg ggaaggacc ccccccccc ccagggtcaa agcgaaccat gcaagggaaa 420
aatttcccat tgggggggag 439

<210> 6132
<211> 545
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-A7

<400> 6132

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ttattgaact ataactcata agaaactaaa agaggcacca ccaatgatgg gttgttggtta 120
gaatgctgtt gggtttgtca aagcaagttg gttgaatggc agcaattgtt gcagttgtaa 180
gagggtgccg gcgttaggcg cagcgtgctg gtagaacggc aacaattgtg gtttgtgtcaa 240
gaaggtagca gggctcacac cagctagctg gctgaatggg agtagttgtt gctgctgtaa 300
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agctagttgg ttgaatggaa gaaactgttg ttgctgagag taggcagcaa ggtttgctag 480
cacaagttgt tgtagttgtt gtgccctgat gttttgtgcc aataaatgca ccaaaggtaa 540

ctgct

545

<210> 6133

<211> 502

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-A8

<400> 6133

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aattacaact aataagcaat ctaaaaaagg ccccccaat gatgtgttgt tggtagaagg 120
ctgctgggtt tgtcaaagca agttggacaa agggcagcaa ctgttgctgc tgtaaaagg 180
ttgcggggtt agccacaaac tgctggtaaa acggaagcaa ttgttggtgt ttcaaaaagg 240
aagtggggct tggtgtagct agctggccaa atggtagtag tatttgctgc tggaaataag 300
caaaggggtt cagtgcggcc aattgggttaa atggaaaaaa ttgttgctgc tgaaagtagg 360
cagtaactag ctggctgaat ggtagtagtt gttgttggtt taaataaaca gcagggttca 420
atgtaaacag ttggttgaat ggaaaaaatg ttgttgctga aagtagggaa aaaggtttgc 480
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<210> 6134

<211> 543

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-N6-B1

<400> 6134

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ctccttgccg ttcttgccct tttgtgagc gcaacaaatg cgttcattat tccacaatgc 120
tcacttgctc ctagtgccat tattccacag ttctccccc cagttacttc aatgggcttc 180
gaacacctag ctgtgcaagc caacatgcaa caacaagcgc ttgcggcgag cgtcttacia 240
caaccaattg cccaattgca acaacaatcc ttgccacatc taacaatata agccatcaca 300
acgcaacagc aacaacagtt cctaccagca ctgagccacc tagccatggg gaaccctgcc 360

gcctacttgc aagagcagct gcttgcaccc aaccacttg ctctggcgaa cgtagttgca 420
aaccagcaac aacaacagct acaacagttt ctgccaacgc tcagtcaact agccatgggtg 480
aaccctgccg cctacgtaca acaacaacaa ctgctttcat ctagcccgct cgctgtgggc 540
aat 543

<210> 6135

<211> 539

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-B10

<400> 6135

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actgctgggt ttgtcaaagc aagttgggtg aatggcagca attgttgagc ttgtaagagg 180
gtgccagcgt taggcgcaac gtgctggtag aacggcaaca actgtgggtg tgtcaagaag 240
gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
gcaggagagt tcaatgctgc tagttgggtg aatggaagaa attgctgggg gtaggcagca 360
ggtagctggc tgaatggtag ttgttgttgt tgcaaataag aagcagagtt caatgaacct 420
agttgggtga atggaagaaa ctgctgttgc tgagagtagg cagcaagggt tgctagcaca 480
agttgttgta gttgttgtgc cctgatgttt tgtgccaata aatgcaccaa aggtaactg 539

<210> 6136

<211> 512

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-B11

<400> 6136

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caacggtgta caccagcct cgatgaatag gaacaagtct gttatttgta aatactagtt 180
cgccaagata taatcgatgt ccaaattatc taattcaact actagatagg ggtgcgccaa 240

tagcaagatg catgtaccct gatgctactt gaaacgacca tgcttccaga gtttgctggg 300
cacgagcatt ctagcaaaga caccgtcagc tcatgcaata aacacctgga tcctatctcc 360
catggcgtcc tcaaaatcaa gcagtatttg accattctgg ggggtgtctg tatcaacagg 420
agcattccga agcctttcca taatattagc tccagccaag cctggaataa ttcttggcat 480
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<210> 6137

<211> 506

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-B2

<400> 6137

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ttgaattaca actaataatc aatctaaaag ggggcaccac caatgatgtg ttgttggttag 120
gaggctgctg ggtttgtcaa agcaagttgg acaaagggca acaattgttg tagttgtaag 180
agggttgcgg ggtagccgc aaactgcttg tagaaaggca gcaactgttg ctgtgtcaag 240
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taagcagcgg ggttcagtgc ggccaattgg ttaaattggaa aaagttgttg ttgctgaaa 360
taggcagtag ctagctggct aaatggtaat agttgttgct gcaaataagc agcagggttc 420
agtgtaaaca gttggttgaa tggaaaaaat tgttgttgct gaaagtaggg agaaaggttt 480
gccaaagcta cttggttgat cacagg 506

<210> 6138

<211> 503

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-B3

<400> 6138

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ttgaactata actcataaga aactaaaggg ggcaccacca atgatgggtt gttggtagaa 120
cactgctggg tttgtcaaag caagttgggt gaatggcagc aattgttgca gttgtaagag 180

ggtgccagcg ttaggcgcaa cgtgctggta gaacggcaac aactgtgggt gtgtcaagaa 240
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 agcaggagag ttcaatgctg ctagttgggt gaatggaaga aattgctggg ggtaggcagc 360
 aggtagctgg ctgaatggta gttgttggtg ttgcaaataa gaagcagagt tcaatgaacc 420
 tagttgggtg aatggaagaa actgctgttg ctgagagtag gcagcaaggt ttgctagcac 480
 aagttgttgt agttgttggtg ccc 503

<210> 6139

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-B5

<400> 6139

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<210> 6140

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-B6

<400> 6140

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 gtagaaagct gctgggttgg gggggggggg gggctgaatg ggagcaattg ttgcagctgt 120
 aaggaggggg ccagcgttag ggcagcggg ctggtagaac ggcaacaacg gcggttggtg 180
 caagaaggga gcagggtca caccaacgag ctggctgaat gggagaaggt ggtgctgccg 240
 gaaataagcg gggagttcaa tgctgtcagc tggctgaacg gaagaaaagg cctgggggca 300
 ggcaggaaaa agctggctgg atgggagagg tggctgacgc aaataagaag cagaggtcaa 360
 tgcagccagc tgggcgaatg gaaaaaactg ctgtcgctga gagtaggcag aa 412

<210> 6141

<211> 526
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-B7

<400> 6141

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gacaatatat atagaaagtc agaagctact gttcattcat atttcgccac agctcagtca 120
cgacaacaaa caggcataac aacagtgaat ccttgtttac attgaacagt agcagcataa 180
actatgtggt cccgtcacia ccaaacaacc accttactct tccgtgaagg ttggagggtg 240
gcgctttgat ctattgctca gagatgaccg cgaaaaatgt atttggagaa gcttgtacga 300
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tgacgctcga cccagtgcga ggtagtactt gtgtagggta cacctcgggtg acctcttcga 420
tcccttcgtc tacatatatg acatcctgca tagtgagctg gtgataactca actatttccc 480
gcaggaatct gttttctcgt gcatatactg agttctcatg cgcaag 526

<210> 6142
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-B8

<400> 6142

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aaaaaggaaa aacctttggg ggggaaaacc ggggggggcc tttgaaaaaa aaaggggggg 240
gggaccgttt tttccccccc cccccctt tttaaaaggg ggggggggtt taaaaaacc 300
tttaaaaaag ggccccgcc tgggggtttt ggccaaagaa aaaaaccgg ggggtcaaaa 360
aattgggagg ggtttgggca aaaaaccccc cc 392

<210> 6143
<211> 456
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-B9

<400> 6143

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aaaaaaaaac ttaagccaaa actggggggg cgaaaccggt taaacaaaag cccaaactgg 120
gactgggggg ggccaccccc gaaagcctaa ccgaaactgg gggggcggga accataacac 180
tacaaggtca ctgggcctat aacccttggg aaaggggggg gcctttttaa ccccggttgg 240
tgactgaaaa cccactttg acagggccgc cctgaagtta cgacggggtc atggttttgg 300
gcttttggag ggacttggcg ttttgaaatt tgacagggga aaaaccacgg gaacccccgg 360
tttttttggg gacgggaaaa cttaccgagg caatttttga cggcccaaaa aaaacttcca 420
aggggttttc cccacgttc catgaaaggg tgccaa 456

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<210> 6144

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-C1

<400> 6144

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aaaaaggggg ggaacccccg gggccagggg gggaaaaaaaa aaggggaacg gggggggaaa 180
aaaaaatggg gaaagggggg ccaaaggaaa tgggggaaaa aaaatttgga aaaaaaggcc 240
cggaaaaacc atgggggaaa aaaggcgggg gaaaaaaaaa ggggaaaaaa gggggggggg 300
aaaaaagggg ggaaaaaaaa cggggatccc tgggaaggga agggcaaaaa gggggggggg 360
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<210> 6145

<211> 522

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-C11

<400> 6145

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aaatatcatg aatcagtagt agggcggaat ggcagcggag acgccacagg ggttggtgcg 180
gtagctgggc agctggtact ggtagagtcc acccatggcc ggcatgttct gcgccatcat 240
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gagcggctgg aacatggcgc tcggctgccc acaccggcg tagtagggcg ccgccgccag 480
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<210> 6146

<211> 562

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-N6-C12

<400> 6146

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gcaccaccaa tgggtgggca ttgcaataag gggggggggg tcgtcaaagc atgttggtta 180
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aatggcagaa gctgttggtg cagtaagaag gcatcagggc tcccgacaag ttggttaaatt 420
ggtagtagtt gttgtgctg caagtagaca gcagggttca ccccgactag ttgattgaat 480
ggaagaaatt gttgttgctg gagataagca gcaagggtcg ctgcaactac ttgattgatt 540
gttggttagca actgttggtg ta 562

<210> 6147

<211> 499

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-063-Q1-N6-C2
 <400> 6147

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 gcagcagggT ttgccacagc tagctgagtc agagctggta caattTgttg cagcaactgt 420
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<210> 6148
 <211> 536
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-063-Q1-N6-C3
 <400> 6148

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<210> 6149
<211> 522
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-063-Q1-N6-C4

<400> 6149

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<210> 6150
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-C5

<400> 6150

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tggttgaatg gcaacaattg ttgcagttgt aaaagggggc ccccgttagg cataacgtgc 180
aggtaaaacg gcccaactgt tgttgtgtca aaaaggcaac aggggtcaca tcaactaact 240
ggctgaatgg gaaaaattgt tgctgctgta aaaaaacagc aaagtccaat gctgctagtt 300
ggttgaaagg aaaaaaatgc tgggggtagg caacaactaa ctggctgaat ggggaattgtt 360
gttgcaaata aacagcaaag ttcaatgcc cccgttggtt gaatggaaaa aactgatttt 420
gcttgaaaat attcaacaag ggttgctaac acaaattgt 459

<210> 6151
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-C6

<400> 6151

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tgctgttggg tttgtcaaag caagttggtt gaatggcagc aattgttgca gttgtaagag 180
ggtgccagcg ttaggcgcag cgtgctggtt gaacggcaac aattgtggtt gtgtcaagaa 240
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agcaggagag ttcaaagctg tcagttggtt gaatggaaaa aattgctggg ggtaggcagc 360
aaatagctgg ctgaatggta gttgttgttg ttgc 394

<210> 6152
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-C8

<400> 6152

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gcctgaaggc ccccgccgcc ccccgatgcc ccctagccta acaggggagg gtgggcccgg 180
ggtccacccc cagctggggg cagtactgcc tgtagtagcc ccccccccg ttcatttggg 240
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cctgggggac cccccgggc accctgttca tccaaaacca aagcgcccc ttgaaccca 360
ccacggggtc ccgcgccacc ctgccgggt ccccgagccc ctcaaaaccg atggcccccc 420
ccgcggggcc ctagttgtag ttccacaaaa tctgcagcgg gccccccc 468

<210> 6153
<211> 543
<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-063-Q1-N6-C9

<400> 6153

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 ctgccacca tggtgatgcg tgacacatta ttactcaatc atcgccgcta aatgactcaa 120
 ctagctagct agccagcggc tatactacag cacatagttt cttcagtggg ggacaccgcc 180
 ggcagcagcg taggggcatg gagtcggctg ctgcaggccg cacatcgccg tcagttgctg 240
 cgctatctgc gccgccaaca gcccccgac ctggccgctt tgcggctgct gctgcaggat 300
 ggactggagg accaagccga agatcgctg gtaccggtgc tgcggctcca cctgcctgag 360
 ctgctggcaa cactgctgcc gcaacgactg gcaactgaggc gagcagtagg gcgtcgccgt 420
 cgggctgcac tgatgcctca gaaactcgac gcaactggccc aggatcgggg tgctgccaac 480
 gccgcaggtt ccctgcagct ggcacgggct tggatgcggc tgttggcacg ggcatgggtg 540
 tgg 543

<210> 6154
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-D1

<400> 6154

aaaaaaaaacc ggggggggaga ttcattcatt tcaacccaac ccaccccccc caaggggagg 60
 cggccccctg gccaaaccgc cagccccccc gggggggggc cccaccccc ccccccccc 120
 cggggggggc cgccaaaga ccttgctatg ccccccccc caaccaccc ccccccccc 180
 cccaggaaac cccccgggg ggcccccccc ccccccaaa aaacaccccg gagggtagt 240
 cccatcagac gaaccaacc ccccccccc cccaagaacc cgcccccccg tccccggccc 300
 cggggcccc 309

<210> 6155
 <211> 506
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-D10

<400> 6155

gcaaagaaca tatatacagt ggataatcca aacaacaggg ggagttaagg ggctcttctg 60
ttatttttgc ttaaaacacc aaacgggaag caaaccatca gaactgatgc gctctcagga 120
caactgagta agaaagcact gcagacgtat atcctaggtg gagtggagtg aaagcacatg 180
tgcacagaga gcgccccaaag gtcgcttctt cgttggtggt atcaggcagg tttcacaaga 240
agatgcggtca aagacgtggc gtagcttgct agtgagctcc actggttggtg ccatggggcac 300
tgctaattga gcccagtgga gaatctccgg tccccatctg cacagcaatg ctgtccacgg 360
actccgaggt cccgcttctg tgaccccaac ttgatcgctt cgaatgcata ccagccctcc 420
cttcacaag ctcaggaagg gcatctctgc tcagatccgg ggacgcatgg gctatcctgc 480
cttctttctc gtccagtaga cccctc 506

<210> 6156

<211> 532

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-D11

<400> 6156

gtttgggggtt tttttttttt ttttgttga aaaatggcaa cttttgcctt ggttcgcact 60
caaagcgaga gtatgtagtt tttcaaatga gcacaaccat tttgcagcac caagaagcac 120
catttttttc cttaggattt aacttagaga taggggcgga cgggggtaac agcaccatc 180
gatccgcagt ccatgctggt tgatgcatgg gtctgctgga gccgaggatg aacacagcac 240
taacaactga cacagagcga ctttcaatca aaaacacaga tgggcaacaa caaacacgag 300
acgaacgaag ataaacactc tggactaggg taaacaacac ggtagcgaac aggataactt 360
ggccgcgagg gcccaccgc tcagttctc cagttcccggt cggagttgcc gtagccgccc 420
ccacggttgc caccgccgta gccgccgcca ccaccacgt agccgccgcc gccaccaccg 480
tagccgccgc caccgccgta gccgccgccg ccatcacggc gcccgccacc gc 532

<210> 6157

<211> 538

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-063-Q1-N6-D12

<400> 6157

gttgggtttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt tttttttttt ttttttttgg ggtgcggggg cccccccaca cccaaaaaat 180
tttccccccc aaaattttta aacaaaaccc cccccccaaa accctataaa ccccccccaa 240
aacccaaatt cccttcatcc ccaccccccc cccctttttt cccccccctt ttttccccaa 300
acccccccct aaaaccccc cccaaaaccc cctttctttt tctttatttt tcccccccc 360
cccccttaa aaaaaataa aattttttta atttctcnaa acccaacccc caaaaaaaaa 420
aatttcccc ttataaaaa ccccccccca aattncccc cacatttaaa aaaaaaattt 480
tttacccccc tttttttttt ttcccacaaa aattaaaacc ctttttacc cccccctt 538

<210> 6158
<211> 542
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-063-Q1-N6-D3

<400> 6158

cacattaaaa tctgngaag taacttctta tttctggttg gccacatata tcatccaaaa 60
actttattat tgaattacaa ctaataagca atctaaaaga ggcaccacca atgatgtgtt 120
gttggttagga ggccgctcgg tctgtcaaag caagttggac aaagggcaac aattgttgta 180
gttgtaagag ggttgcgggg ttagccgcaa actgctggta gaaaggcagc aactgttgct 240
gtgtcaagaa ggaagcacgg ttgctgcag ctagctggct aaatggtagt agtatttgct 300
gctgcaaata agcagcgggg ttcagtgcgg ccaattgggt aaatggaaga agttgttggt 360
gctgagagta ggcagtagct agctggctga atggtaatag ttgttgctgc aaataagcag 420
cagggttcag tgtagacagt tgggtgaatg gaagaaattg ttgttgctga gagtagggag 480
aaaggtttgc cagagctact tgggtgatca caggtagcac gagttgctgc agctgctgtg 540

cc

542

<210> 6159
<211> 246
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-063-Q1-N6-D4

<400> 6159

acaagccacg cgcgcgccgg cttccgccag cgcagtgcn gagtggcggc ccagtccgct 60
ataggcgccg gtgaccagcg cggctcttga tttcaggtct tcaaacatcg gtgcgtctcc 120
tttgtttgtc tgccggcggc attacgccgc ctcacgggtc gcggcctggc tggcgggatg 180
aagttccacc agcgcatcca ccgccaccgc gccctgcccc accgcgccga ccatcaccgg 240
gttgat 246

<210> 6160
<211> 539
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-D7

<400> 6160

gcggggggggt ggtttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tggagcgctt acacaccggt tattggttca gcctttaaac ccttggtgga 120
tacaaggcaa tcgaaaagta caagcgatgt gcaagggggc acgttggttg caaaacaaca 180
tgcatataaa aggggggttaa ttattcaggg ggaaaaaaca gggtcagcta gccccgggg 240
tttattggca ctattggtcg gtttcccccg cgagggggca aagcgacccc caacacaagg 300
gctgaaggcc cccgccgtcc gccgatgcc cctaacctaa caggggaggg ggggcccggg 360
gtcaaccccg agctgggggg agtactgcct gtagtaaccg accccccgt tcatttgggg 420
gggggtgttc cccccgaact caagggcccc cttgatggcc ctgggggggg ggccaaaccc 480
ctgggggacc accccgggca cgctgttaat ccaaaaccaa agcgccgcct tgaaccccc 539

<210> 6161

<211> 519
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-D8

<400> 6161

agaaatctgg aaagtaactt cttatttctg gttggccaca tacatcatcc aaaaacttta 60
ttattgaatt acaactaata atcaatctaa aagagggcac caccaatgat gtgttgttgg 120
taggaggctg ctgggtttgt caaagcaagt tggacaaagg gcaacaattg ttgtagtgtg 180
aagaggggtt ggggttagcc gcaaactgct tgtagaaagg cagcaactgt tgctgtgtca 240
agaaggaagg acgacttgct gcagctagct cgctaaatgg cagtagtatt tgctgctgca 300
aataagcagc ggggttcagt gcggccaatt ggttaaattg aagaagttgt tgttgctgag 360
agtaggcagt agctagctgg ctaaattgga atagttgttg ctgcaaataa gcagcagggt 420
tcagtgtaga cagttggttg aatggaagaa attgttgttg ctgagagtag ggagaaaggt 480
ttgccagagc tacttggttg atcacaggta gcacgagtt 519

<210> 6162
<211> 540
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-D9

<400> 6162

ctcaaaattc gattcttatt tgattttcct tagaaatact ccatcgccac tagctacaac 60
tacaagcaca cacaataaac ctctgcctcc ctcagctgcc aaataacaca ggatctcaga 120
cttcgggcat acctaccatc attctgcagt tacaagcaac agctgcatct gtttttctag 180
catcccagtt ccttcgcct cctctctac gtacagcaca cctagatgga caccaacatg 240
taacacggta catactgaca gagaacgatg gttctcgctc actggcgggc ctcaccggag 300
gctgttgacg aaggcgagga gcgagtcgac gtccctcttc tcggacgggt acttgatggg 360
ccgggcggtg cggctcggga acaggagcac ggtggggaag ctctgcagct gcagctcggc 420
ctgagcgaac ggcttctgct cgccgtcggc gcggaaccgg gccaccttca cgccgccgga 480
ccccgccagc ctctcggcca gctccacgta ggaggcctcc atggcctggc agaacgggca 540

<210> 6163
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-E1

<400> 6163

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaccc ccaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaa aaaaaaaaaa aaccccccta ataaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
acaacaaaaa aaaaaaaaaa aaggaaaggg ggcccccttt ttcaaaggtt ttaacctgaa 360
ggggggccac acctccaaaa aaagggaaaa aaaaaaaaaa aaaaacctcc cgggggagga 420
aaaaacaccc caaaa 435

<210> 6164
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-E10

<400> 6164

aatgggggaa aaaaccaaaa aaaaatttgg gtttttttag ggaaaaaac cccctttggg 60
gggccccatt ttgggggcca tttaaagga aaaaaaaaag agagggggccc cccaaagggg 120
ggggggggcc ccaaagggg ggggttaaaa aaaaaaacg gggggtgggg aaaaaattgt 180
tgtttttggg ggaggggacc acaaagggg taaccccccc gggggggaaa aaaaaacggg 240
gggccctggg ggggggcccc aaaaaattc aaaaaacca ttgggtaaaa agaaaaaatt 300
ttttaaaaaa aggaaaaagg gtttccaaa atttggtgaa aaaaagcggg aaaaaattgg 360
ggaaaaaact ggggggaaaa aaacggttgt tccaggtttt taggggaatt ccccaaaagg 420
ggg 423

<210> 6165

<211> 528
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-E2

<400> 6165

aagaatctag aaagtacttt cttatttctg ggaagccaca aacatcagac aaaaacttta 60
ttattgaact ataactcata agaaatctaa aagagggcac caccaatgat gggttgttgg 120
tagaacgctg ctgggtttgt caaagcaagt tgggtgaatg gcagcaattg ttgcagttgt 180
aagaggggtgc cagcgttagg cgcagcgtgc tggtagaacg gcaacaactg tggttgtatc 240
aagaaggtag cagggctcac accagctagc tggctgaatg gtagtagttg ttgctgctgt 300
aaataagcag gagagttcaa tgctgccagt tgggtgaatg gaagaaattg ctgggggtag 360
gcagcaggta gctggctgaa tggtagttgt tgttggtgca aataagaagc agagttcaat 420
gcagctagtt ggttgaatgg aagaaactgc tgttgctgag agtaggcagc aaggtttgct 480
agcacaagtt gttgtagttg ttgtgccctg atgttttgtg ccaataaa 528

<210> 6166
<211> 489
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-E3

<400> 6166

aaaccggggc cagtactatc tggcaacatt cccatattta ttccgcatag ttattatcat 60
tattggaaca cccgacaatg cgagcccacg tcaaaactac cccattctgg acttgcaccc 120
ccacagaaca aatgctgggt tttgcacccc ggcgcgactc gcattttttt taaccatggg 180
agctagtact gggcgccccc ggaaaaaagc tgcactcctg ggggtccgac aggcggcaca 240
taattggaaa ccccgggggg tactcccggg cctttgaaag cctaacgcgg ccgatacctg 300
gccccggggg gccgggacca cacgggggat acatctgggt tggggatccc tctcctgccc 360
gggtggaggg gtagtaataa cccccctggc ctctcctcc ctgcgggggg ggttggtgcc 420
ccccccccca tggccaccag cctttttcca ggggggggat ggccctcctg tatcccctga 480
ccatgctcc 489

<210> 6167
<211> 525
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-E4

<400> 6167

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tttgacataa ccttaggatt acagcagatc ctaaaccacg gaacgaaaca acggccgctc 120
ctttgattca accgcggcct ccagttgtcc aactgcctgg cgaagcagag atggccactt 180
ttcaagaagg cccccaccaa aatgtaacta atggaacatg cttctccaga catagctac 240
aagctacacc tcttcaacac aaaacaaagt tgcttttttt tcagactttc tgcactttag 300
tagtaagctc cttcagctta ctacccttta cacaatccac gtccttgcct gtggcctcgt 360
agtagtcgtt gagcgccac tggtagcttg actgatccaa cccgaaccag gtagccatgt 420
actcgtcgag gctggcgtgc gcttcctgga cgcgcgcgac ggcgtcccag aagaagccaa 480
acgccgatcc gtcgtgcttg cctcccgcgg acgccttctc gtact 525

<210> 6168
<211> 526
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-E5

<400> 6168

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actataactc ataagcaatc taaaagaggg caccaccaat gatgggttgt tggtagaaca 120
ctgttgagtt tgtcaaagca agttggttga atggcagcaa ttgttgagct tgtaagaggg 180
tgccagcgtt aggcatagcg tgcaggtaga acggcaacaa ctgttggttg gtcaagaagg 240
cagcagggct cacatcagct agctggctga atggtagtag ttgttgctgc tgtaaataag 300
cagcagagtt caatgctgct agttggttga atggaagaaa ttgctggggg taggcagcaa 360
ctagctggct gaatggtaat tggtgttgca aataagcagc agagttcaat gcagccagtt 420
ggttgaatgg aagaaactga tggtgctgag agtatgcagc aaggtttgct agcacaagtt 480

gtttagtttg ttgtgccctg atgttttgtg ccaccaaag gaccaa

526

<210> 6169

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-E6

<400> 6169

gggcccagg ggcttttttt aaaatccctt aaacaggggt tacaaaaag gggacttttt 60
ttttgaaatc caaagggtt ttaacggggg aaaaccaagt ccgggaacc ataacaacc 120
ccccatacct gggctagctg ctctctgggg ttatggggcc ggaccaacag gatcaggccc 180
cccgatcatgt ttcatgtgtt ggcaaacagg ccacccattt ttattattgc tcccaggccc 240
aaataaacta ttatttggtc ctcttccttc cttttttttg aactgaggta tgcctctgaa 300
gggggaaggc actgggtcac tgggcactca ctggtagttt gccctgccac taccaactcc 360
agggcttgtt ttgttgccc ccgcgtcgg gggccgcgg caactgggaa taaaaaccct 420
aatccaaggc ccctgcctt tgctccttt cgctggtgcc gaaaaaacgg ggcc 474

<210> 6170

<211> 503

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-E7

<400> 6170

aatctagaaa gtactttctt atttctggga agccacaaac atcagataaa aactttatta 60
ttgaactata actcataaga aatctaaaag agggcaccac caatgatggg ttgttggtag 120
aacactgctg ggtttgtcaa agcaagttgg ttgaatggca gcaattgttg cagttgtaag 180
agggtgccag cgtaggcgc aacgtgctgg tagaacggca acaactgtgg ttgtgtcaag 240
aaggtagcag ggctcacacc agctagctgg ctgaatggta gtagttgttg ctgctgtaaa 300
taagcaggag agttcaatgc tgctagttgg ttgaatggaa gaaattgctg ggggtaggca 360
gcaggtagct ggctgaatgg tagttgttgt tgttgcaaat aagaagcaga gttcaatgaa 420
cctagttggt tgaatggaag aaactgctgt tgctgagagt aggcagcaag gtttgctagc 480

acaagttggt gtagttgttg tgc .

503

<210> 6171

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-E8

<400> 6171

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gccccattat cggggccctc ccaaatggaa acaaaaaaag gcccccccaa cggggggggg 120
cggccccaac aagggggggg tcaacaaaaa aaaccgggtg gagggcaaca attggtgctg 180
ctgggggaag gccccccca aggggttacc cccccctggg ggataaaaaa accggggccc 240
ctgttggagg gccccaccaa agttccaccc aaccagttgg ttgaaaggaa acacctgttg 300
caaggaggca acagggtttg ccacaactag ctgagtcaaa gctgggcca actggtgcaa 360
caaccggtgt tgcaggtatg taggggcctt aaccacagcg ggggggctaa aaaaaaacac 420
ttgttgctgt ttagggagg cggcagggtt caccctggct agtt 464

<210> 6172

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-E9

<400> 6172

aaaaattaaa tataaaaaaa aaaaaaaaaa aataaaaaaa aaaaaaaaaa agaaaggggg 60
aaaaaggggg gggggggggg gaaaaagaat gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaggaagaa aaaaaccaac aaaagaaaaa agaggcgaaa aaaaagaggg 180
gggggggggg ggaaaaagga agggggaggg gggggggggg gagaaaaaaa aaaggggggg 240
ggggaaggaa gaggggaaaa aaaggggggg gggggcgggg gaaagggggg agggacaggg 300
ggggggggag ggaaaaccga ccggaagggg gggcgagggg gaggggggga aaaagggcgg 360
gggggggaaa aaaggggggg aggaaaggga gcgggcgagg gacccaccg aggcaagggg 420
gagaccggag ggcgccgggg agcggcaagg ggcggcgaaa 460

<210> 6173
<211> 495
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-F1

<400> 6173

gggagaaaag cacagtagta tccctatatt ctcacaggtc ctgacaaaat cagatgcggg 60
gaaacactta caaaggggtc tttctttcgg ggaaaaaggc aaaaataatc caactcaaaa 120
aaaaattgta aaggaaatth agagcacaaa tgcgtgagaa ggcaacaacg atgctatgac 180
ctggcagggg acagcaaccg tccaacaag cacagaaaaa gaaagaagtt tattccaatg 240
aatagcaaag acatttctca tgcccaccaa aataatgagt aacctattac tccaccacct 300
tccaaacacg aatgcaagca tcctcgccgg gaggcaccaa agtatcattc tccaggaagg 360
gtaaaccatg aactccaccc aaatgagctc ccttgatagg gacccgactg gctactggct 420
tggctatctc gtaaacaatt gcacaggggt ccagggagcc aggggcaacc aatcgactgg 480
ccggggacca aacc 495

<210> 6174
<211> 557
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-F10

<400> 6174

gtgggggggt ttttttttac agatcaagta ccacattgct agcaacacag cagtaaccat 60
cgtcagccat ccaacacaac atagcattat acagcgggtc caggcctaac gaggcaaaag 120
gagttctagt tccaaaacaa aaactgctta gcttaggaat ttcaaactctg cattgccagc 180
acacaacgca gacagccacc ttcgtgcagc aggtggaagg cgtcgttgat gtcagccagg 240
ttcatgttgt gcgtaatgta ctcgtccacc ttaatttcct ttttcatgta cttgtcaaca 300
agccatggga cctgggtccg gctcttgaag ccaccgaaag cggttccctt ccagacacgc 360
ccagtcacga gctggaatgg tcgtgtggcg atctcctggc cagaggcggc gacgccgacg 420
atgacggagg ttccccagcc cttgtggcag cattccagtg cagccctcat aaccgaaaca 480

tttccaatgc actcaaagct gtaatccacg cgcacatctg taagatcgac caggacctgc 540
tgtatcgggtt tgatcatg 557

<210> 6175
<211> 525
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-F2

<400> 6175

caattgttca ttcagggtcat tgctcacact gacactgccca cccatggtga tgcgtgacac 60
attattactc aatcatcgcc gctaaatgac tcaactagct agctagccag cggctatact 120
acagcacata gtttcttcag tggggggacac cgccggcagc agcgtagggg catggagtcg 180
gctgctgcag gccgcacatc gccgtcagtt gctgctgctat ctgcgccgcc aacagccccg 240
cgacctggcc gctttgcggc tgctgctgca ggatggactg gaggaccaag ccgaagatcg 300
cctggtaccg gtgctgcggc tccacctgcc tgagctgctg gcaacactgc tgccgcaacg 360
actggcactg aggcgagcag tagggcgctc cgcgcgggct gactgatgc ctgaggaact 420
cgacgcactg gccagcatc ggggtgctgc caacgccgca ggttcctgc agctggcacg 480
ggcttggatg cggctgttgg cacgggcatg ggtgtggctg gggat 525

<210> 6176
<211> 508
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-F3

<400> 6176

gggaagttat attctatggt ataataaaat ttattttaga tctttaacgg aaaggaaaaa 60
gaaaagaggg caccaccaa gaagggtaga aggtagaatg ctgctggggg ggggggagga 120
ggttggttga aaggcagcaa tcggtgcagg tgtaagaggg ggccagcgtt aggcgcagcg 180
tgctggtaga acggcaaca cagtggttgt gtcaagaagg tagcagggct cacaccagct 240
agctggctga atggtagtag ttggggctgc tgtaaataag caggagagtt caatgctgtc 300
agttggttga atggaagaaa ttgctggggg taggcagcag atagctggct gaatggtagt 360

tggtgctggt gcaaataaga agcagagttc aatgcagcta gttggttgaa aggaagaaac 420
 tgctgttgct gagagtaggc agcaagggtt gctagcaciaa gttgtttag ttggtgggcc 480
 ctggagggtt tgggccaaaa aaagcacc 508

<210> 6177
 <211> 501
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-F5

<400> 6177

aaaactggaa agtaacttct tatttctggt tggccacata catcatccca aaaaacttta 60
 ttattgaatt acaactaata atcaatctaa aagagggccc caccaatgat gtgttggttg 120
 taggaggctg ctgggtttgt caaagcaagt tggacaaagg gcaacaattg ttgtagttgt 180
 aagaggggtg cgggggttagc cgcaaactgc ttgtaaaaag gcagcaactg ttgctgtgtc 240
 aagaaggaag cagcacttgc tgcagctagc tcgctaaatg gcagtagtat ttgctgtgtc 300
 aaataagcag cgggggttcag tgcggccaat tgggttaaatg gaaaaagtgt ttgttgctga 360
 aagtaggcag tacctagctg gctaaatggt aatagttgtt gctgcaaata agcagcaggg 420
 ttcagtgtaa acagttggtt gaatggaaaa aattgttggt gctgaaagta gggagaaagg 480
 tttgccaaag ctacttggtt g 501

<210> 6178
 <211> 528
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-F6

<400> 6178

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 gcaccattgt cgagtacatc tcatatgtaa tctaaaagag gcacctcaa cgatgggttg 120
 ctgcaaggca gggttcatca aagagaactg gttgtatggc agcaattgtt gttgtgtgtg 180
 caggaaggta gcgaccaatg ggtagccac tgccaatgga ttaagtaact gttgtgtgtg 240
 ttgtaggtac gcagcagagt ttgacacagc cagttgggtt aatggaagca actgttgtaa 300

gtaggcagca gggtttgcca cagctagctg agtcagagct ggtacaattt gttgcagcaa 360
 ctgttggtgt aggtacgtag gtgcattgcc caccgcgagc gggctagatg aaagtagttg 420
 taggtagacg gcagggttca ccatggctag ttgactgagc actggcataa actggttcag 480
 ctgttggtgt tgctgggtatg cagctacgtt cgccagagca agtggggt 528

<210> 6179

<211> 517

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-F8

<400> 6179

aaaaatagat ctctaattctt ttattactga gaagttgcac atatcagtat gagaacttta 60
 ttattacagt ataaagcata aaaaaactag aagatggcac caccaatggg gggctgctgc 120
 aataaggggg taggattcgt caaagcaagt tggttaaatg gcagcaattg ttgttggtgt 180
 aagaaggcga cattgtttgc cacatcctgt gggtagaatg gtagcaactg ttgctgttgc 240
 aagaaggcgt taatgtttcc cacaacctgt gggtaaaatg gcagcaattg ttgttggtgt 300
 tgcaagaaag cagcaatgtt tgccacaact tgtagatgga atggaagcaa ctgttgctgc 360
 agtaagaagg cagcagggtt cctgacaagt tggttgaatg gtagtagctg ttgtgcctgc 420
 aagtaagcag cagggttcac ccagctagt tgattgaatg gaagaaattg ttgttgctgg 480
 aggtaagcag caagggttcgc tgcaactact tgattga 517

<210> 6180

<211> 530

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-F9

<400> 6180

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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttttt tttttttttt tttttttttt ttttttgaaa aaaaaaaaag gggggggggg 180
 ttatggggaa aaacccgggt agggaaaaaa ggggggggga aaaaaaatt ttaaaaggga 240

aaaccccaaa aaggtcttgg gggggggggg gttttttggg gggggggggg gggaaaaagc 300
 ccaaaaaggg ggggggggatt ggggggggaa aaaaaaggcc cccccctttt ggaagggttg 360
 gggaaaacca aaaaaaaaaa aagggggggg gggggggccc ccccggaatt ggggggaaaa 420
 aagggtttta aatggggggg aaaaaatttg ggggaaaaaa tggcaaaaaa aaaaaaaaaa 480
 agggggggga aaaaacgggg aaatttttgg ggggaaaaaa acgggggggg 530

<210> 6181

<211> 545

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-N6-G1

<400> 6181

gntcctatcc gtcgcgtgc cgtctgacac cggccgtgtg ctgagcatcc agtcccacac 60
 cgtccagggg tatgttggca acaaatcggc cgtctttccc ctgcagctcc ttggctttga 120
 tgtggatcca ataaactctg tacagttttc taatcataca ggatacccaa catttagagg 180
 tcaggttctt aatggcaaac agctctggga ccttattgaa ggactggagg aaaatcagtt 240
 gcttcattat acccatttat taacaggtta tataggctca gtttcctttt tagatactgt 300
 gctacaagtt gttgagaaat tgcgatcagt taatcctgat cttgtatatg tttgtgacct 360
 agttctaggt gatgaaggaa aactatatgt tcctcaggag ctaatatctg tttatcaaca 420
 gaaggttggt ccagttgctt caatgcttac acctaaccaa tttgaagttg aactacttac 480
 tggattgagg atcacctccg aagaagatgg tttgacagct tgtaataccc tccacagtgc 540
 cggac 545

<210> 6182

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-G10

<400> 6182

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ttttttttat tttttttttt ttttttttaa gggggggcaa aaagggggga taaaaaaaaa 180
 aaccacccaa aaaagggggc cggcccgggg cttttttcca aaggggggaa accaaaaaaaaa 240
 aaaattttca aggggccaaa aaagcggaaa aaacaaaaaaaa acccttaaaa aaaaaagaa 300
 caaatcggcc cgggaaacgg aaaaaaaaaac cggaaaaaaaaa tgggggttatt tccccaaaaa 360
 aacaagaaaa ccaaaaaaaaa ccttggggga aaaaaagagg cgtattttgg gggggtttta 420
 aaaaaaata gaaccctta aaaggaaaaa aaaaccccca cggggggggg ttct 474

<210> 6183

<211> 536

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-G11

<400> 6183

gtttgggggt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
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 gacctaaacc ccaaaaaaaaa tcaaaagggg ggggcccccg aagagggggt ttgggaaaaa 180
 ccctgggggg tttgaaaaac caaggggggtg gaagggaac aattggggca gttgaaaaag 240
 gggcccaccg ttaggcccac cgggctggaa aaacggaaac aactgggggt gggaaaaaaaa 300
 gggagcaggg cccacccac ctacctggct aaagggaata aattgttgct gctgaaaaaa 360
 accgggaaag tccaaggctg ctagtgggga aaaagaaaaa aattgcgggg gggaggcaaa 420
 aggaacctgg ctaaagggga tttgttgtt ttgcaaaaaa aaagcaaagt tcaaggacc 480
 tagtgggtga aaggaaaaaa actgtttttt ctaaaaagaa ggcaaaaagg tttcca 536

<210> 6184

<211> 551

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-G12

<400> 6184

ggtgggggtt tttcatttca attgttcatt caggtcattg ctcacactga cactgccacc 60
 catggtgatg cgtgacacat tattactcaa tcatcgccgc taaatgactc aactagctag 120

ctagccagcg gctatactac agcacatagt tgggtggaggg ggggacaccg ccggcagcag 180
 cgtaggggca tggagtcggc tgctgcaggc cgcacatcgc cgtcagttgc tgcgctatct 240
 ggcgcgccaa cagccccgcg acctggccgc tttgcggctg ctgctgcagg atggactgga 300
 ggaccaagcc gaagatcgcc tgggtaccggt gctgcggctc cacctgcctg agctgctggc 360
 aacactgctg ccgcaacgac tggcactgag gcgagcagta gggcgtcgcc gtcgggctgc 420
 actgatgcct cagaaactcg acgcactggc ccaggatcgg ggtgctgcca acgccgcagg 480
 ttccttcgag ctggcacggg cttggatgcg gctgttggca cgggcatggg tgtggctggg 540
 gatgaggctg a 551

<210> 6185

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-G2

<400> 6185

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 acttttctgg tcctcaagca cgagcaatac aggacacaatc taagagttca aaagcccagg 120
 catattaagt tcttacaac tagccattgc agtcacactg cggatccata caagcttatg 180
 aagactgtcg aagctctgga cgcacgaaat cagcatcagc ggtcactgag atgtcaacag 240
 tgggcctcag ctgagcgcag acttcgatgg caccgtggac agggtcagac atgaagttgc 300
 tgatgaggtc ttggttgatc ggtgctttct tgtcaacagt cacaaacgcc tgttgggtca 360
 agatgt 366

<210> 6186

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-G3

<400> 6186

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gttggttagga ggccgctcgg tctgtcaaag caagttggac aaagggcaac aattgttgta 180
 gttgtaagag gggtgcgggg ttagccgcaa actgctggta gaaaggcagc aactgttgct 240
 gtgtcaagaa ggaagcacgg tttgctgcag ctagctggct aaatggtagt agtatttgct 300
 gctgcaaata agcagcgggg ttcagtgcgg ccaattgggt aaatggaaga agttgttggt 360
 gctgaaagta ggcagtagct agctggctga atggtaatag ttgttgctgc aaataagcag 420
 cagggttcag tgtaaacagt tggttgaatg gaagaaat 458

<210> 6187

<211> 538

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-G4

<400> 6187

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 tttttttttt ttttcaccaa aaactttatt attgattaca ctaataacat ctaaaaaggg 120
 cccaccaag atggttggtg gtaggaggct gctggggttg caaacagttg gcaagggcaa 180
 caatgttgat tgaagagggt tgccggggta gcccaaactg tgtaaaaagg cacactgttg 240
 ctgtgtcaaa aggaacacgg tttgctgcac tgctggctaa aggtagaata tttgctgctg 300
 caaataacac gggttcagtg cggccaattg gttaaaggaa aaattgttgt tgtgaaagta 360
 ggcataccta gctggctgaa tggaatagtt gttgctgcaa ataacagcag ggttcagtgt 420
 aaaagttggt tgaatggaaa aaatgttggt gctgatagta gggaaaaagg tttgccaaag 480
 ctacttggtt gatcacaggt agcacaagtt gctgcagctg ctgtgccttg atggtttg 538

<210> 6188

<211> 523

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-G7

<400> 6188

atcgaggaaa atctcaatca atatattgat tatttctagg aaacacacgt cggtatgagg 60
 gcaccattat cgagtacatc tcatatgtaa tctaaaaaag gcacctccaa cgatggggtg 120

ctgcctcgac aagacaggat tcatcaaaga gaactgggtg tatggcagca attgttgctg 180
ctgttaggaag gcggcgacca atgggttagc cactaccaat ggattaagta actgttgctg 240
ctgtttagg tacgcagcag agttcgacag agtcagttgg ttgaatggaa gcagctgttg 300
caagtaggca acagggtttg ccacagctag ttgagtcaga gctggtacaa tctgttgcaa 360
caattgttgt tgcaggtatg taggtgcatt gccacagcg agcgggctag atgaaagcag 420
ttgttgttgt tgtacgtagg cggcagggtt caccatggct agttgactga gcgttggcag 480
aaactgttgt agctgttgtt gttgctgggt tgcaactacg ttt 523

<210> 6189

<211> 513

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-G8

<400> 6189

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ggtaacagca cccatcgatc cgcagtcctt gctgggtgat gcatgggtct gctggagccg 120
aggatgaaca cgaggctaac aactgacaca gagcgacctt caatcaaaaa cacagatggg 180
caacaacaaa cagcagacga acgaagataa acactctgga ctagggtaaa caacacggta 240
gogaacagga taacttggcc gcgcggggccc caccgctcag ttcctccagt tcccgtcgga 300
gttgccgtag ccgccgccac ggttgccacc gccgtagccg ccgccaccac caccgtagcc 360
gccgccgcca ccaccgtagc cgccgccacc gccgtagccg ccgccgccat cacggggccc 420
gccaccggcg tagccgccgc cttcacgagg caccaccgta cccggcggcg gcggcggcga 480
cacgggcgcc gggggaactg ggctcgttg acg 513

<210> 6190

<211> 558

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-G9

<400> 6190

gggggggttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60


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tttttttttt tttttttttt aaaaaactaa aaagggcctt tcttatttcg ggggcccccc 120
aaacctcatc caaaaaactt cttttttgaa ccatagccca taagccatct aaaagggggc 180
cccccccagg ggggggtggg gggaaaaccc cgggggggtt gccaaaacaa ggggggtgaa 240
gggcaccaat tgggtgcagt gtaaaagggg gcccgcgta ggcatacgcg gccgggaaaa 300
cggcaacaac tgttgttggg tcaaaaaggc agcagggccc acatcaacta gctggctgaa 360
tgggaaaagt tgttgtgct gtaaaaaac cccaaagttc aatgctgcta gttgggtgaa 420
aggaaaaaaa tgctgggggg aggcaacaac taactggctg aaagggaat ggtggtgcaa 480
aaaacccgca aagttcaatg cccccgttg gttgaatgga aaaaaccgat gttgctgaaa 540
gaatccacca aggttgc

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<210>      6191
<211>      537
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3061-063-Q1-N6-H10

<400>      6191

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cccaaacatc atccaaaaaa cctcattatg gggggggggg gggggagcca tctaaaagg 180
ggcccccccc atgggggggg ggggggaaaa caccgggggg gttgtcaaaa caaggggggt 240
gaatggcaac aattgttgca gttgaaaaag ggggcccccg ttaggcataa cgggcaggga 300
aaaccgcaac aactggtggt ggtgaaaaaa ggcagcaggg ctacatcaa ctaactggct 360
gaatgggaaa agttgttgct gctgaaaaaa aacagcaaag ttcaatgctg ctagttgggt 420
gaaaggaaaa aattgctggg ggggggcagc aactagctgg ctgaaggga attggtgttg 480
caaaaaaacc gcaaagttca atgccccag ttggttgaat ggaaaaaact gatgttg 537

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<210>      6192
<211>      516
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3061-063-Q1-N6-H11

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<400> 6192

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ccttcagtgg ggggcacaga tgggcaacat caaacacgag acgaacgaag ataaacactc 180
tggactaggg taaacaacac ggcccgcgaa caggataact tggccgcgcg ggccccaccg 240
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agccgccgcc accagcaccg tagccgccgc cgccaccacc gtagccgggg gcaccgccgt 360
agccgccgcc gccatgacgg ttctccgtca cagacgtagc cgccgggtcc acgggcacca 420
ccgtaccgcg cgtcgacgcc ggctccacgg gcgccgcggg actgggcctc gttgacagtg 480
atgttgccgc cgtccagttc cttgccgttc atgccc 516

<210> 6193

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-063-Q1-N6-H12

<400> 6193

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tcagcatgag aactttatta ttacagntga taaatcataa aaaatctaga agatggcacc 120
accaatggtg ggcggttgca ataaggtggt aggggtggggg gggggcatgt tggctaaatg 180
gtagcaattg ttgttggtgt aagaaggcaa caatgtttgc cacattctgt gggtagaatg 240
gtagcaattg ttgctgttgc aagaaggcat taatgtttcc cacaacttgt gggtaaaatg 300
gcaacaaatg ttgttgtctc aagaaagcaa caatgtttgc cacagcttgc agatggaatg 360
gcagaagctg ttgttgacgt aagaaggcat aagggtccc gacaagttgg ttaaattgta 420
gtagctgttg tgctgcaag tagatagcag 450

<210> 6194

<211> 524

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-H2

<400> 6194

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ttattgaatt acaactaata atcaatctaa aagaggcacc accaatgatg tggtgttggt 120
aggaggctgc tgggtttgtc aaagcaagtt ggacaaaggg caacaattgt tgtagttgta 180
agagggttgc ggggttagcc gcaaactgct tgtagaaagg cagcaactgt tgctgtgtca 240
agaaggaagc acgacttgct gcagctagct cgctaaatgg cagtagtatt tgctgctgca 300
aataagcagc ggggttcagt gcggccaatt ggttaaattg aagaagttgt tggtgctgag 360
agtaggcagt agctagctgg ctaaattggt atagttgttg ctgcaaataa gcagcagggt 420
tcagtgtaga cagttggttg aatggaagaa attgttggtg ctgagagtag ggagaaaggt 480
ttgccagagc tacttggttg atcacaggta gcacgagttg ctgc 524

<210> 6195

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-H3

<400> 6195

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aaggtggaca aaaggcagca attggtgaaa gggggagagg gttgggggga tagcccaaaa 180
ctaacgggaa aaaggcagga actgttgcta aggcaagaag gaagccccac ttgctgcagc 240
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caattgggta aaaagaagaa gggggggcag ctgagagtag gcgggaacta gctggctgtg 360
tgggcataga agatgctgca aataaacaac acggttcagt gtaaacagaa aaatgaatgg 420
aagaaaaaga agctgctgag agtgcggaaga aaggtttgcc agagctactt gcccgatcac 480

<210> 6196

<211> 517

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-H4

<400> 6196

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agaggggtgcc agcgtttaggc gcaacgtgct ggtagaacgg caacaactgt ggttggtgtca 180
agaaggtagc agggctcaca ccagctagct ggctgaatgg tagtagttgt tgctgctgta 240
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cagcaggtag ctggctgaat ggtagttggt gttggtgcaa ataagaagca gagttcaatg 360
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gcacaagttg ttgtagttgt tgtgccctga tgttttgtgc caataaatgc accaaaggta 480
actgttgtaa tagggctgat gattggttga ggaacaa 517

<210> 6197

<211> 532

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-H5

<400> 6197

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agaacgctgt tgggtttgtc aaagcaagtt ggttgaatgg cagcaattgt tgcagttgta 180
agaggggtgcc agcgtttaggc gcagcgtgca ggtagaacgg caacaactgt tgttggtgtca 240
agaaggcaac agggctcaca tcagctagct ggctgaatgg tggtagctgt tgctggttga 300
aataagcagc agagttcaat gctgccagtt ggttgaatgg aagaaattgc tgggggtagg 360
cagcagctag ctgactgaat ggtagttggt gttgcaaata agcagcagag ttcaatgcag 420
ccagttgggtt gaatggaaga aactgctgtt gctgagagta ggcagcaagg tttcctagca 480
caagttggtg tagttggtgt gccttgatgt tttgtgccaa caaatgcacc aa 532

<210> 6198

<211> 498

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-H6

<400> 6198

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tgccatgagg gatctagggg cagtttctaa gggtaaacia ccatccctag catacaagct 120
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gcagaagacg atggccaaac caccgggctc aaaaagggtg aactctccag ccagccttcg 240
aagcttcttc ttatttgggg ctgattgacg tctttttttg taccgggggg cactgatcga 300
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ctccgatacc tttgcgagag aattgagggt gcacttgatc acggcctcca caaagtagca 420
tgtctcgtcc ttcgggttgc catcaggcac attgaccacg aacgacttga tcaccagggg 480
gcccggcctc ccgtaaat 498

<210> 6199

<211> 544

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-063-Q1-N6-H7

<400> 6199

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tttttttttt tttttttttt ttaaaaaaaaa aggggggaaa aaaaaaaaaac cccccaaaaa 180
aaaacccggg gggtttttta aaaaaaaaaa aaaaaaaata aaaaccccc caagggaaaa 240
aaaaaaaaaa aaaaaaaagg taaaaaaacc caccgccggg ggaaaaaaac aaaaggcccc 300
caaaaaaaaa aaacaaaaaa aaaaactttg gcaagggggc cccaaaaagg gccccaaaaa 360
aat ttgaaaa aaccccccg gggaagggcc caaatccgg ggggggaagg cttaaaaaaa 420
ggggtaaacc caaaagggcc caaaaaaaaa aaaaaacctt ttttgggggg gggaaaaaaa 480
aaaaaagggg gggtttttaa aagggtcca aaaaatttta cctggaaaaa aagggggggc 540
cccc 544

<210> 6200
 <211> 611
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 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-064-Q1-K6-A1

<400> 6200

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ctcctatagc ttcccttctt ccccatatcc ttccatcaat gatagcttca gtatgtgaaa 180
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<210> 6201
 <211> 474
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-A10

<400> 6201

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acagcgacaa cagttactta atccattggc agtggctaac ccattggctg ctaccttctt 300
gcagcagcaa caacaattgc tgccatacaa ccagttctct ttgatgaacc ctgccttgca 360
  
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gcaacccatc gttggagggtg ccatctttta gattacatat gagatgtact cgacaatgg 420
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<210> 6202

<211> 620

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-K6-A11

<400> 6202

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tgatgagggg ggggtgaaac tgtgggatat gaatcaggct gggagtattg gcactattag 240
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cggtcttgca gaccacaaaa ttactgcta tgatctacgt aacatacgag ctcttattg 360
tacactagtt ggccacacaa agactgtaag ctatgttaag tatctggatg catcaacaat 420
actatccgca tctactgaca actcattgaa gctttgggac ttatcgatga atccaggaag 480
gataattgac agtccagttc aaacatttac agggcataca aatacaaaga acttcgttgg 540
tctttccata tctgatggtt acattgctac tggctctgaa acaaatgaag tttttgtcta 600
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<210> 6203

<211> 510

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-A3

<400> 6203

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gcagtgctgc caccagatca ggcaggtgga gccgctgcac cggtaccagg cgacatacgg 180

tgtggctctg cagtccttcc tgcagcagca gccgcagggc gagctcgcgg cgctgatggc 240
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ataatgtaat ggagccgctg actagctacc tagctcgcta gtttactcat ttagcggcgca 420
tgagtaacgt agtgtcacc atcaccatgg gtggcagtgt gagcaatgac ctgaatgaac 480
cattgaaatg gaaaggaata atatataagg 510

<210> 6204

<211> 608

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-A4

<400> 6204

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tgctcacttg ctctagtgc cattattcca cagttcctcc caccagttac ttcaatgggc 180
ttcgaacatc cagccgtgca agcctacagg ctacaactag cgcttgcggc gagcgcctta 240
caacaaccaa ttgcccaatt gcaacaacaa tccttggcac atctaaccct acaaaccatt 300
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aaccctgtca cctacttgca acagcagctg cttgcatcca acccaattgc tctggcgcaac 420
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gccatggtga accctgccgt ctacctacaa ctactttcat ctagcccgct cgcggtgggc 540
aatgcaccta cgtacctaca acaacagttg ctgcaacaaa ttgtaccagc tctgactcag 600
ctagctgt 608

<210> 6205

<211> 603

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-K6-A5

<400> 6205

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gctcacaagc tcctatagct tcccttcttc ccccatacct tccatcaatt atagcttcag 180
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tacctttatc gcccttggtg tttcaacaat caccagccct atctttggtg cagtcattgg 300
tacaaaccat cagggcacia cagctgcagc aactcgtgct acctgtgatc aaccaagtag 360
ctctggcaaa cttttctccc tactctcagc aacaacaatt tcttccattc aaccaactgt 420
ctacactgaa ccctgctgct tatttgagc aacaactatt accatttagc cagctagcta 480
ctgcctactc tcagcaacaa caacttcttc catttaacca attggccgca ctgaaccccg 540
ctgcttattt gcagcagcaa atactactgc catttagcga gctagctgca gcaagtcgtg 600
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<210> 6206

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-A8

<400> 6206

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agtagtatgt ttgtttctat ccgagccgga ggcgatactt aaccatggat acttgttgtg 120
agttcgtttc tgttcgcgtg tgactcttga attgaatcaa ccagctcacc actgcaccag 180
gcgcgggggg agtggtgaca gtgatttcct gtt 213

<210> 6207

<211> 188

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-B1

<400> 6207

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ttgtaattca ataataaagt tttttggatg atgtatgtgg ccaaccagaa ataagaagtt 180
acatttcc 188

<210> 6208
<211> 616
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-B10

<400> 6208

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tgtggctgcc agacaccacc gtttcatcta cgcctccgt tctatatgcc gctccgttc 180
tatcgggggg cgcagcagca gccgcagcca tggcaatacc cactcaacc accgcagcta 240
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cagtgcgtcg agttcctgag gcaccagtgc agcccgggcg cgacgcccta cggctcgcca 360
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gagctcgcgg cgctgatggc ggcccatgta ggcgcagcagc tgacggcgat gtgcggtctg 540
cagctgcagc agccaggtcc ctgcccttgc aacgcagctg ccggcggggt ctactactga 600
ggaaactatg tactga 616

<210> 6209
<211> 593
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-B11

<400> 6209

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cattattcca caatgctcac ttgctcctag tgccattatt ccacagttcc tccctccagt 180
tacttcaatg ggcttcgaac acccagctgt gcaagcctac aggtctacaac aagcgcttgc 240

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 ggcaaacata gttgcatacc aacaacaaca acaattgcaa cagtttctac cagcgctcag 480
 tcaactagcc atggtgaacc ctgccgcta cctacaacag caacaactga tttcatctag 540
 ccctctcgct gtggttaatg cacctacata cctgcaacaa cagttgctgc aac 593

<210> 6210

<211> 637

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-K6-B12

<400> 6210

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 ngaatgaaca gttaaaggag cgccnacgaa atgggagaaa aaactgcaga agtttgcaaa 180
 aacaatggat tgtgggggga gggcaaaaag gcaggaagag gcaccactga ttgagcaagc 240
 ttttcaaaaa cgtcttgagg aagagaagat ccttcacgag caagagcagc ttcgggagat 300
 tgaactcagc aagcaacacc atgccagcga cttgcaagag aaaaatagac tttcacggat 360
 gttggagcac aagaatgctt tacaggagag aatcatccaa gaacgtgcag ctgagtttgg 420
 ccgtctgaag aaagagagag atgaacggat gaatcggttg atatcttcaa gaaagcatga 480
 aaggagaca gtaaggaagt tgatgtttta tctgaacctg gaggaacagc ggattgaaat 540
 gcttcgtgag gaagaggaag ctagaaaacg tgaagcggaa gagaggagga agagagagga 600
 ggctgaaagg aaagctaaac ttgatgccat cgctgaa 637

<210> 6211

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-K6-B3

<400> 6211

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acaaccacaa ttgttgccgt tctaccagca cgctgcgctt aacgctggca ccctcttaca 120
actgcaacaa ttgttgccat tcaaccaact tgctttgaca aaccaacag cattctacca 180
acaacccatc attggtggtg cgctntttt agatttatta ttggactgta actnataaga 240
aattaaaaag ggcgcnanng aggatgggtg ggtggggggac tgcgggtggg ttggtcggag 300
caagttggtt gagtggcagc agtgggtgga gttgtaagag ggtgccagcg ttaggcgcag 360
cgggctggtt gaacggcagc atttgtggtt gtgtcaagaa gggggcaggg ctcacacgag 420
ctagctggct gaatggtagt agttgttgc gc 452

<210> 6212

<211> 606

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-K6-B4

<400> 6212

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ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180
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caccctcgtc acggaggccg agtgcaacct ggccaccatc agcggcgctc ccgaatgcc 480
ctggattctc ggcggcggaa cgatgcctc caagtaactg cgaagagcat agtgcagag 540
gaatgagctt gtagctagct catatgtctg aataataagc acagccagga agatgaatgc 600
atttct 606

<210> 6213

<211> 605
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-064-Q1-K6-B7

<400> 6213

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tactcacaag ctctatagc tgcccttctt ccccatacc ttccatcaat gaccgcttca 180
gtttgtgaaa acccagccct tcaaccctac aggctccaac aagcaatcgc aacaagcaac 240
ttacctttat caccctgtt ctttcaacaa tcgccagccc tatcttttgt gcagtcattg 300
gtacaaacca tcagggcaca acagctgcaa caactcgtgc taccagtgat cagccaagta 360
gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt caaccaactg 420
tctacactga accctgctgc ttatttacia caacaacaac tactaccatt cagccagcta 480
gctactgect actctcagca gcaacaattt ctccattta accaattggc cgactgaac 540
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cccac 605
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<210> 6214
 <211> 621
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-064-Q1-K6-B9

<400> 6214

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tgctcacaag ctctatagc ttcccttctt ccccatacc tctcaccagc ggtgtcttca 180
atgtgtgaaa cccaattgt tcaaccctac aggatccaac aggcaatcgc aacaggcatc 240
ttaccattat cacccttgtt cctccaacaa ccgtcagccc tattacagca gttacctttg 300
gtccatttgg tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac 360
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cttgctgcat actctcagca acatcagttt cttccattca accaactggc tgcattgaac 420
tctgctgctt atttgcaaca acaattacca ttcagccagc tagttgctgc ctacccccag 480
caatttcttc cattcaacca actagcagca ttgaactctg ctgcttattt acagcagcaa 540
caactactac cattcagcca gctagctgat gtgagccctg ctgccttctt gacacaacaa 600
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<210> 6215

<211> 594

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-C1

<400> 6215

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gatctggtct ccggcgccgg cggacggggt gcagggtcca ccgcccgcgc cgcagcccga 180
cgcgggcgccg gggttgacgg atctgctgtc caagaacggc tgcgggggct tgcgcagcct 240
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tctcaaggcg atcaatgggg acgtaagcac gcttgccctc gacggatcca agaacaacaa 480
cgggtacaac ctaacgatac gtgccgacgg ggacacagtg aaaatctcgt ccgcatctgc 540
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<210> 6216

<211> 627

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 6216

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caatggctac caagatatta gccctccttg cgcttcttgc cctttttgtg agcgcaacaa 120

atgcgttcat tattccacaa tgctcacttg ctcttagtgc cattatacca cagttcctcc 180
 gaccagttgg ggggatgggc ttccaacacc tagctgtgca agcctacagg ctacaacaag 240
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 atctaaccat acaaaccatc gcaacacaa agcaacaaca gttcctacca gcaactgagcc 360
 aactagatgt ggtgaaccct gtcgcctact tgcaacagca ggtgcttgca tccaaccac 420
 ttgctctggc aaacgtagct gcataccaac aacaacaaca attgcaacag tttctgccag 480
 cgctcagtca actagccatg gtgaaccctg ccgcctacct acaacagcaa caactgcttt 540
 catctagccc tctcgttggtg ggtaatgcac ctacatacct gcaacaacaa ttgctgcaac 600
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<210> 6217

<211> 508

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-C2

<400> 6217

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 acctgtgccg gcaaaatcga gtctgggttcg gttgaccagt cggatgggtc cttccttgat 180
 gacgggcagc aggaggaagg ttatgtgctg acatgcgtct cctacccaaa gtccgactgc 240
 gtcattccaca cccacaagga aggcgacctg tactagggct agggattttc aatttggcga 300
 gggaccacaaa atgctctcga gtggtgcttt gtcaagcaaa gctccatctg cgcgcctac 360
 cccgttgctg gaactgtttg gcatcaaact tgtgtgggtg ctgtcttcta tgttctgcta 420
 gtttatgttc ggagtcctgt ggaatatact agctgattaa taaaaagaaa aaactgatgt 480
 gatgccataa tagtataatt tcattggct 508

<210> 6218

<211> 636

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-K6-C6

<400> 6218

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ttccaagaca ttatccctcc ttgcgcttct tgcccttttt gtgagtgcaa caaatgcgtt 120
cattattcca caatgctcac ttgctccgag tgccattatt ccacagttcc tccctccagt 180
tacttcaatg ggcttcgaac acccagctgt gcaagcctat aggctacaac aagcgcttgc 240
ggcgagcgtc ttagaacaac caattgcccc attacaacaa caatccttgg cacatctaac 300
catacaaacc atcgcaacgc agcagcaaca agcactgagc cacctagccg tgggtgaaccc 360
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tgcataccaa caacaacaac agttgcaaca gtttctacca gcgctcagtc aactagccat 480
ggtgaaccct atcgcttacc tacaacagca acaacttctt tcatctagcc cgctcgctat 540
gggcaatgca cctacatacc tgcaacaaca gttgttgcaa caacagttgc tgcaacaaat 600
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<210> 6219

<211> 491

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-C7

<400> 6219

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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt ttttttttagg 180
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ttcttttggg ggggggcaac aaaaaaaaaa aaaaaaaatt tttttgtaac aaaatcccca 300
aaaaaaaaaa aaaaaaaggg ggggggggtt aaagggaata aaaaaatccg gccggggggg 360
gggggagaaa tttttaagag gggggcccca aaaaaaaaaa aaaagggggg ggttttaaaa 420
aagggggggg ggaaaaaacc cggggcgccc aaaaaaaaag gcgggggggg acgattccct 480
ttaggcgggg g 491

<210> 6220
<211> 506
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-C8

<400> 6220

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ccagagcaac ggggccgacc tgtggggcgcc ggcgcacacg gccaggcgaa ggtgaggact 180
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cgtatatgtg ttgagcggca tgtggattag aagcctgtgt ggctggctgt cagcaagcag 480
agcggcagtt tgatgcctgt tccttg 506

<210> 6221
<211> 599
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 6221

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gggatgatgc aggcgcaana tgacnntgca agtggcgccg gnatccctga cgttcggcga 180
ctgggaacct gcgngnacga catggcccgt cacccaatac ttgcaagcag ggacttcttc 240
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tcctgccaaag ccctacaact acaagaaggc tatataaatt caagtaggaa tgcaggatgg 360
ggtgcattca actcatgcag gtggcaggtt aatggaagtg gcccaattctg tggcgtggct 420
gagatgattg gacctgtcga tctcgacaga agtgttgatt actggcagca ggataagttg 480

gagtggccag ttccctgtga agtggcgcat atttaaggat gaacctgaac aatcttgtgc 540
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<210> 6222
<211> 603
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-D10

<400> 6222

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caatgctcac ttgctcctag tgccattatt ccacagttcc tcccaccagt tacttcaatg 180
ggggggcgga cacctatctg tgcaagccaa catgcaacaa caagcgcttg cggcgagcgt 240
cttacaacaa ccaattgccc aattgcaaca acaatccttg ccacatctaa caatacaagc 300
catcacaacg caacagcaac aacagttcct accagcactg agccacctag ccatggtgaa 360
ccctgccgcc tacttgcaag agcagctgct tgcattccaac ccattgctc tggcgaacgt 420
agttgcaaac cagcaacaac aacagctaca acagtttctg ccaacgctca gtcaactagc 480
catggtgaac cctgccgcct acgtacaaca acaacaactg ctttcatcta gcccgcctcg 540
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gac 603

<210> 6223
<211> 607
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-D11

<400> 6223

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tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcat 180
actctgagca acatcagttt cttccattca accaactggc tgcatggaac tctgctgctt 240

atttgaaca acaattacca ttcagccagc tagttgctgc ctacccccag caattttcttc 300
cattcaacca actagcagca ttgaactctg ctgcttattt acagcagcaa caactactac 360
cattcagcca gctagctgat gtgagccctg ctgccttctt gacacaacaa cagttggttg 420
cggtctacct gcacgctatg cctaacgctg gcaccctctt acaactgcaa caattgctgc 480
cattcaacca acttgctttg acaaacccaa cagtgttcta ccaacaaccc atcattgggtg 540
gtgccctctt ttagattgct tatgagttat agttcaataa tgaagttttt tggatgatgt 600
ttgtgga 607

<210> 6224

<211> 603

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-D2

<400> 6224

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cggttgcctt gctctcctgg cgctcgctgc gagcgccgcc tccagtacaa gcggcggtg 120
tgggtgccag acaccaccgt ttcactacc gctcctgttc tatatgccgc ctccgttcta 180
tctgccgccg cagcagcagc cgcagccatg gcaatacccc actcaaccac cgcagctaag 240
cccgtgccag cagttcggat cctgcggcgt cggcagcgtc ggcagcccgt tcctgggcca 300
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gtgccaggcg ctgcagcagc agtgctgcca ccagatcagg caggtggagc cgctgcaccg 420
gtaccaggcg acatacgggtg tggtcctgca gtccttcttg cagcagcagc cgcaggcgga 480
gctcgcggtg ctgatggcgg cccaggtagc gcagcagctg acggcgatgt gcggcctgca 540
gctgcagcag ccaggtccct gcccttgcaa cgcagctgcc ggcggtgtct actactgagg 600
aaa 603

<210> 6225

<211> 608

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-K6-D3

<400> 6225

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gctccttat gtccttggc ctttctgcaa gtgctgctac ggcgaccatt ttcccgaat 120
gctcgcaagc tcctatagct tcccttcttc ccccgtagct ctaccagcg gtgtcttcgg 180
tatgtgaaaa cccaattctt caaccctaca ggatccaaca ggcaatcaca gctggcatct 240
tacctttatc acccttgttc ctccaacaat catcagccct attacatcag ttacctttgg 300
tgcatatttatt ggcacaaaac atcagggcac aacaactaca acaacttgtg ctagcaaacc 360
ttgctgcta ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact 420
ctgcttctta ttgcaacaa caacaactac cattcagcca gctacctgct gcctaccccc 480
agcaatttct tcattcaac caactggcag cattgaactc tctgcttat ttacagcagc 540
aacaactact accattcagc cagctagctg gtgtgagccc tgctaccttc ttgataaac 600
cacagttg 608

<210> 6226

<211> 597

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-D4

<400> 6226

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ttcggcgcca agtccatccg cccctccgaa tctccgattg ccgccgtcca gttttggcag 120
gtgccggccg acagttgaga atgggactga ggcgcctgat gagatgctgc tgctgcattg 180
caaagcacgc ggacgacggc gacaagatcg atttcggagg tggcaatgtt catgttgtca 240
caagcaaaga ggactgggac caagaattg ccgaggcaaa caaggatggg aaaaccgtgg 300
ttgcaaactt cagcgcttcc tgggtgtggc cgtgccgtgt catcgcacct gtctacgccg 360
aatgtcgca gacgtaccct cagctcatgt tctgacgat cgatgttgat gacttgatgg 420
agttcagctc gtcgtgggac atccgcgcga ccccgacctt cttcttcttc aagaacgagc 480
agcaggtgga caagctggtc ggcgccaaca agcctgagct ggagaagaaa gtggccgccg 540

tcgccgacgc ggccggcagc aagacagtgt agtgtaggca aagacccgcc tagcttg 597

<210> 6227

<211> 601

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-K6-D8

<400> 6227

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ttatgctcct tgggtcttct gcaagtgtctg ctacggcgac cattttcccg caatgctcgc 120

aagctcctat agcttccctt cttccccctg acctctcacc agcgggtgtct tcggtatgtg 180

aaaacccaat tcttcaacct tacaggatcc aacaggcaat cgcagctggc atcttacctt 240

tatcacctt gtctctccaa caatcatcag ccctattaca acagttacct ttggtgcatt 300

tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg 360

cctactctca gcaacagcag tttcttccat tcaaccaact aggttcattg aactctgctt 420

cttatttgca acaacaacaa ctaccattca gccagctacc tgctgcctac cccagcaat 480

ttcttccatt caaccaacta gcagcattga actctcctgc ttatttacag cagcaacaac 540

tactaccatt cagccagcta gctggtgtga gccctgctac cttcttgaca caaccacagt 600

t 601

<210> 6228

<211> 600

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-D9

<400> 6228

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attatccctc cttgcgcttc ttgcgctttt tgcgagcgca acaaatgcgt ccattattcc 120

acaatgctca cttgctccta gttccattat tccacagttc ctcccaccag ttacttcaat 180

ggccttcgaa caccagctg tgcaagccta taggctacaa caagcgattg cggcgagcgt 240

cttacaacaa ccaattgccc aattgcaaca acaatccttg gcacatctaa caatacaaac 300

catcgcaacg caacagcaac aacagttcct accagcactg agccacctag ccatggtgaa 360
 ccctgtcgcc tacttgcaac agcagctgct tgcattcaac ccacttgctc tagcaaacgt 420
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 catggtgaac cctgccgcct acctacaaca gcaacaactg ctttcatcta gcccgctcgc 540
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<210> 6229

<211> 581

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-K6-E1

<400> 6229

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 ttttttttaga aagtactttc ttatttctgg gaagccacaa acatcagaca aaaactttat 120
 tattgaacta taactcataa aaaatctaaa aggggcacca ccaatgatgg gttgttggtta 180
 gaatgctgct gggtttgtca aagcaagttg gttgaatggc agcaattggt gcagttgtaa 240
 gaggggtgcca gcgttagggc cagcgtgctg gtagaacggc aacaactggg gttgtgtcaa 300
 gaagggagca gggctcacac cagctagctg gctgaatggg agtagttggt gctgctgtaa 360
 ataagcagga gagttcaatg ctgtcagttg gttgaatgga aaaaattgct gggggtaggc 420
 agcaaatagc tggctgaatg gtagttgttg ttgttgcaaa taagaagcag agttcaatgc 480
 agctagttgg ttgaatggaa aaaactgctg ttgctgagag taggcagcaa ggtttgctag 540
 cacaagttgt tgtagttggt gtgccctgat gttttgtgcc a 581

<210> 6230

<211> 580

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-E10

<400> 6230

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tctgcaagtg ctgctacggc gaccattttc cgcgaatgct cgcaagctcc tatagcttcc 120
 cttcttcccc cgtacctctc accagcgggtg tcttcggtat gtgaaaaccc aattcttcaa 180
 ccctacagga tccaacaggc aatcacagct ggcatcttac ctttatcacc cttgttcctc 240
 caacaatcat cagccctatt acatcagtta cctttgggtgc atttattggc acaaaacatc 300
 agggcacaac aactacaaca acttggtgcta gcaaaccctg ctgcctactc tcagcaacag 360
 cagtttcttc cattcaacca actagctgca ttgaactctg cttcttattt gcaacaacaa 420
 caactaccat tcagccagct acctgctgcc tacccccagc aatttcttcc attcaaccaa 480
 ctggcagcat tgaactctcc tgcttattta cagcagcaac aactactacc attcagccag 540
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<210> 6231
 <211> 598
 <212> DNA
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 <223> Clone ID: LIB3061-064-Q1-K6-E11
 <400> 6231

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 ccatcagggc acaacagctg cagcaactcg tgctacctct gatcaaccaa gtagctctgg 180
 caaacctggg tggctactct cagcaacaac aatttcttcc attcaaccaa ctgtctacac 240
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 tcttgacaca gcaacagttg ctgcctttct accagcagtt tgcggctaac cccgcaaccc 480
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<210> 6232
 <211> 606
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-064-Q1-K6-E12

<400> 6232

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cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180
gcggggggggg tgtgaaaacc cagctcttca accatatagg cttcaacaag caatcgcagc 240
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gtcattggta caaaccatca gggcacaaca gctgcagcaa ctctgtgtac ctgtgatcaa 360
ccaagtagct ctggcaaacc tttctcccta ctctcagcaa caacaatttc ttccattcaa 420
ccaactgtct aactgaacc ctgctgttta tttgcagcaa caactattac catttagcca 480
gctagctact gcctactctc agcaacaaca acttcttcca tttaaccaat tggccgcact 540
gaaccccgct gcttatttgc agcagcaaat actactgcca tttancgagc tagctgcagc 600
aagtca 606

<210> 6233

<211> 590

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-E3

<400> 6233

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tctttctgca agtgctgcta cggcgaccat tttcccgcaa tgctcgcaag ctcttatagc 120
ttcccttctt ccccgctacc tctcaccagc ggtgtcttcg gtatgtgaaa acccaattct 180
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catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcct actctcagca 360
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acaacaacta ccattcagcc agctacctgc tgctacccc cagcaatttc ttccattcaa 480
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ccagctagct ggtgtgagcc ctgctacctt cttgatacaa ccacagttgt 590

<210> 6234
<211> 590
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 6234

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aggacggcaa aacgcttctg aaagacgaag cagagaaggt gatcaggtgc ctggaagcag 180
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tcaacgtcaa gagcgtgggc gtgcctgctg cgggtggccaa agcggcggag ccaagctccg 480
gcagcatggt caggagcagc ttcttctcct tcggcagcct cttcgcgaag ctccgggcct 540
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<210> 6235
<211> 599
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-064-Q1-K6-E6

<400> 6235

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ccctcaatgc tcacaagctc ctatagcttc ccttcttccc ccataccttc catcaattat 180
agcttcagta tgtgaaaacc cagctcttca accatatagg cttcaacaag caatcgcagc 240
aagcaacata cctttatcgc ccttggtgtt tcaacaatca ccagccctat ctttggtgca 300

gtcattggta caaaccatca gggcacaaca gctgcagcaa ctctgtgtac ctgtgatcaa 360
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ccaactgtct acaactgaacc ctgctgctta tttgcagcaa caactattac catttagcca 480
gctagctact gcctactctc agcaacaaca acttcttcca tttaaccaat tggccgact 540
gaaccccgct gcttatttgc agcagcaaact actactgcca tttagcgagc tagctgcaa 599

<210> 6236
<211> 588
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-064-Q1-K6-E9

<400> 6236

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ttccagctac aatgtatctg ttagtactag atatgtgatg atccaagaat tcacgcgagc 120
gtttgagatt tgtcaggcca tagatgaagg aaaagcagat tgggacgcat tgtttgagcc 180
atatccattt tttgaatcat ataaaaatta tctagaagtt aatatcacag cgagaaatga 240
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gattgagcgt tattcacacg agatgatcct tgcacacca tatcccaaag atttctcaga 360
caaatccagg cccttactt gcttttactt catgggtctt tggagaaaac aaaccacca 420
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ttgtgcatat caacattgga aagaaggaat ggacattgaa gtgtcccatg taaaagaaa 540
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<210> 6237
<211> 602
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-064-Q1-K6-F1

<400> 6237

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aaaatcctgt agatgatcag cagtggctca cttactgggt gttgtactca tttatcactt 360
tgtttgagct aacttttgct ccaattatcg agtggcttcc attttggtcg tatgcaaagc 420
tgttctttaa ctgctggttg gtcttgctt ggttcaatgg tgctgcctat gtttacgacc 480
atgttgctcg gccaatgttt gtgaaccgcc aaatagtga catatggtat attccaagaa 540
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ac 602

<210> 6238
<211> 602
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-064-Q1-K6-F10
<400> 6238

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cgcggggctg cagggcttgt acggcgctgg cgccggcctg acgacgatga tggcgccgg 180
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tc 602

<210> 6239
<211> 606
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-F11

<400> 6239

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gcggcgttgg cagcaccctg atcctggggc agtgcgctga gttcctgagg catcagtgc 180
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tccatc 606

<210> 6240
<211> 614
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-064-Q1-K6-F12

<400> 6240

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cggcgccagc agccggcctg caggctgttt gaagagctcg ccatttaatc tcaatggaag 180
ccaaggtttt ccgtttcctg aagctcgttg gggtcggctt caaagcgagg tcagagagcc 240
aaggccgtga gttgttcctt aaactgggct tcagccatga ggtgcagttc accgctcctc 300
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acaggggtgca ccagttcgcc ggcgccatcc ggagctccaa ggctccagag gtgtacaagg 420
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ataagtgacg attcgaaggc gttacaactt tgtctctgtc ttttaacccc atgcttcgca 540
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<210> 6241

<211> 611

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-K6-F3

<400> 6241

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tcctatagct tcccttcttc ccccgtagct ctcaccaacg gtgtcttcgg tatgtgaaaa 180
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ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta 420
tttgcaacaa caacaactac cattcagcca gctatctgct gcctaccccc agcaatttct 480
tccattcaac caactgacag cattgaactc tctgcttat ttacagcagc aacaactact 540
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<210> 6242

<211> 606

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-K6-F4

<400> 6242

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 aactctgctt cttatttgca acaacaacaa ctaccattca gccagctacc tgctgcctac 480
 cccagcaat ttcttccatt caaccaacta gcagcattga actctcctgc ttatttacag 540
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<210> 6243
 <211> 606
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 6243

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 tcaatgtcga caagctccta tagcttcctt tcttccccca taccttccat caatgatagc 180
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 agtagctctg gcaaaccctt ctccctactc tcagcaacaa caatttcttc cattcaacca 420
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 ccgtgc 606

<210> 6244
 <211> 607
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 6244

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gctgggatta tcggcaattt acaagtaaga tggaatatta gatcattctg atgtcagtca 180
gcagttgagg acagtttgat tccagtgtat ttgacaaaca cttggtgcag gttctaggca 240
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aagttttctg tgaaaaattg aaatgtctta acatatgatg cccacttat tgttcttctt 360
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 <211> 590
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 6245

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cattattcca caatgctcac ttgctcctag ttccattatt ccacagttcc tcccaccagt 180
tacttcaatg gccttcgaac acccagctgt gcaagcctat aggctacaac aagcgattgc 240
ggcgagcgtc ttacaacaac caattgccca attgcaacaa caatccttgg cacatctaac 300
  
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aatacaaacc atcgcaacgc aacagcaaca acagttccta ccagcactga gccacctagc 360
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agcaaacgta gttgcaaacc agcaacaaca acaactgcaa cagtttctgc cagcgcttag 480
tcaactagcc atggtgaacc ctgccgcta cctacaacag caacaactgc tttcatctag 540
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<210> 6246

<211> 610

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 6246

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ttttccctca atgctcacia gtcctatag ctcccttct tccccatac cttccatcaa 180
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tcaaccaagt agctctggca aacctttct cctactctca gcaacaacaa tttcttccat 420
tcaaccaact gtctacactg aaccctgctg cttatttgca gcaacaacta ttaccattta 480
gccagctagc tactgcctac tctcagcaac aacaacttct tccatttaac caattggccg 540
cactgaaccc cgctgcttat ttgcagcagc aaatactact gccatttagc gagctagctg 600
cagcaagtcg 610

<210> 6247

<211> 587

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-K6-G1

<400> 6247

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 gatgcagcag cagcagcagc tgctggcagc ccagggtctc aaccccatgg ccatgatgat 480
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<210> 6248

<211> 597

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-G4

<400> 6248

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 agcgccaaga agcgttgac tgggcatcg acaacctgct ccaccacggg gacaccctcg 180
 tcgtcgtcca cgtcctgcac cacggcgcg aggagaccaa gcacacgctc tgggccaagt 240
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 gcgtgcgccc cgacgccgag gtgctcgac cgatcgacac ggcagcgcg cagaagcagc 360
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<210> 6249

<211> 621

<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 6249

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aaccttgctg catactctca gcaacatcag tttcttccat tcaaccaact ggctgcattg 240
aactctgctg cttatttgca acaacaatta ccattcagcc agctagttgc tgcctacccc 300
cagcaatttc ttccattcaa ccaactagca gcattgaact ctgctgctta tttacagcag 360
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caacagttgt tgccgttcta cctgcacgct atgcctaacg ctggcaccct cttacaactg 480
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<210> 6250
<211> 583
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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gctctcggtt gctttgctat ggggatctgc gcgtcgtcca agcgcgtgga gcaggaggag 180
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aagggcaaga agggggccaa ccaggacgcc gtcctcctct gccagggatt cggcatggag 360
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<210> 6251
 <211> 612
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-H1

<400> 6251

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 acaagcaatc gcaacaagca acttaccttt atcacccttg ttctttcaac aatcgccagc 180
 cctatctttg gtgcagtcac tgggtacaaac catcagggca caacagctgc aacaactcgt 240
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<210> 6252
 <211> 608
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 6252

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gctcacaagc tcctatagct tcctttcttc ccccatacct ctcaccagcg gtgtcttcag 180
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aatttcttcc attcaaccaa ctggcagcat tgaactctgc tgcttattta caacagcaac 540
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<210> 6253

<211> 588

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-H2

<400> 6253

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atcttcgaga agtaccgaga ggtgtgaaca tttaagtttt cattgtggct gtgagtatat 180
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atcaagggcg aactcggaa attggtatac cgcgctttgg ttgggttgct gcaggataat 540
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<210> 6254

<211> 147

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-064-Q1-K6-H3

<400> 6254

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<210> 6255

<211> 600

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-K6-H5

<400> 6255

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caacatcatc cacaacaaca tcatccacaa aaacaacaac atcaaccacc accacaacat 240
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caacaacatc aacaacaatt ccagggtcat gacaagcagc aacaaccaca acagcctcag 540
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<210> 6256

<211> 619

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-K6-H7

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tatcttcata atgtcacgac acgtgctcag gccttttgcc tgaatccaac tgtaaatttc 600
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<210> 6257

<211> 602

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-K6-H8

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<210> 6258
<211> 533
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-A1

<400> 6258

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gcttgttga gcctataagg ctgaagagct gggttttcac atactgcaag ctatcattag 480
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<210> 6259
<211> 538
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-A10

<400> 6259

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<210> 6260
 <211> 545
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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<400> 6260

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 aagctgcacc gttggcaact ctggatttaa tcgccacaaa ttttgaagcc acgcacgcgc 360
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 tccctagaca gtgacatcta ccacggctat atgcatgatt tggtgagcac ggcctaagaa 480
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<210> 6261
 <211> 516
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-A3

<400> 6261

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 ctcaactgc caccatgggt gatgggtgac actacgttac tcatcgccgc taaatgagta 120
 aactagcgag ctaggtagct agtcagcggc tccattacat tattactaca gtacatagtt 180
 tcctcagtag tagacaccgc cggcagctgc gttgcaaggg cagggacctg gctgctgcag 240
 ctgcaggccg cacatcgccg tcagctgctg cgctacctgg gccgccatca gcgccgcgag 300
 ctgcacctgc ggctgctgct gcaggaagga ctgcaggacc acacogtatg tcgcctggta 360

ccggtgcagc ggctccacct gctgatctg gtggcagcac tgctgctgca gcgcctggca 420
ctgtggcgag ccgtagggcg tcgccgccgg gctgactgg tgccctagga actcgacgca 480
ctggcccagg aacgggctgc cgacgctgcc gacgcc 516

<210> 6262

<211> 547

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-A4

<400> 6262

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catgtcggta tgagggcacc attgtcgagt acatctcata tgtaatctaa aagaggcacc 120
tccaacgatg ggttgctgca aggcagggtt catcaaagag aactggttgt atggcagcaa 180
ttgttggtgc tgctgcagga aggtagcgac caatgggtta gccactgcca atggattaag 240
taactgttgt cgctgttgta ggtacgcagc agagtttgac acagccagtt ggttgaatgg 300
aagcaactgt tgtaagtagg cagcagggtt tgccacagct agctgagtca gagctggtag 360
aatttggtgc agcaactgtt gttgtaggta cgtagggtgca ttgcccaccg cgagcgggct 420
agatgaaagt agttgtaggt agacggcagg gttcaccatg gctagttgac tgagcactgg 480
cataaactgt tgcagctgtt gttgttgctg gtatgcagct acgttcgcca gagcaagtgg 540
gttggat 547

<210> 6263

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-A5

<400> 6263

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ggttccccca aaaaaaaaaa taaaagagga ggggcccccc caaggggggg tggggggggg 120
gggggggggg gtttttaaaa aaagggggga aaagggggaa aaattggggg tttttaaaag 180
gggggggggg ggtaccccaa aaccgtttta aaaaagggga aaatttgggg tgggaaaaaa 240

aagaaaaaaa atttggggga aaaagccccc aaaagggggg aaatttttgg gggggaaaaa 300
 aaaaaggggg ggtaaagggg cccaattggt aaaaaggaaa aaattttttt ttttaaaagg 360
 gccaaacccc ccgggggaaaa gggaaaaaag gggggcccaa 400

<210> 6264

<211> 525

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-A6

<400> 6264

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 ctataactca taagcaatct aaaagagggc accaccaatg atgggttggt ggtagaacac 120
 tgttgggttt gtcaaagcaa gttggttgaa tggcagcaat tgttgagtt gtaagagggt 180
 gccagcgtaa ggcatacgct gcaggtagaa cggcaacaac tgttggttg tcaagaaggc 240
 agcagggctc acatcagcta gctggctgaa tggtagtagt tgttgctgct gtaaataagc 300
 agcagagttc aatgctgcta gttggttgaa tgggaagaaat tgctgggggt aggcagcaac 360
 tagctggctg aatggtaatt gttgttgcaa ataagcagca gagttcaatg cagccagttg 420
 gttgaatgga agaaactgat gttgctgaga gtatgcagca aggtttgcta gcacaagttg 480
 ttgtagttgt tgtgcctga tgttttgtgc caccaaattg accaa 525

<210> 6265

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-A8

<400> 6265

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 tgagctggtt gattcaattc aagagtcaca cggaacaga aacgaactca caacaagtat 120
 ccatggttaa gtatcgctc cggctcgat agaaacaaac atactactag ttcacaaatc 180
 gccgtcaata agggccagca cgtatggctg taaatgttgg c 221

<210> 6266

<211> 188
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-064-Q1-N6-B1
 <400> 6266
 gggaaaggaa cttcttattt ttggggggcc acatacatca tccaaaaaat ttattattga 60
 attacaacta ataagcaatc taaaagaggg ccccccaat gatgtgttgt tgggaggagg 120
 cccctgggtc tgtcaaagca aggtggacaa agggcaacaa ttgtttagt tgtaagcgga 180
 cccctggg 188

<210> 6267
 <211> 532
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-064-Q1-N6-B10
 <400> 6267
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 aacaaaaaaaa aaaaaaaaaa aaaaaaaagg gggggggggg ggggaaaaaa aaaaaaaaca 180
 acaaagaaaa aggaaaaaaa aaaaaaaaaa aagggaaaaa aaaaaaaaaa aaaaaaaaaa 240
 caaaaaaaaa aaaaaaaaaa gggggaaaaa aaaaaaaaaa aaaaaaaaaa agttaaaaaa 300
 aaaaaaaaaa aagggggagg gggagaacaa aggacagaaa aataattagt gaaaaaaggg 360
 aaagaaaaaa gggggaaaag gggaaaaaaa aagaggaaaa aaaaaagggg ggaagggaaa 420
 attaggaaaa agagaaaaaa aaaaaagaaa gagaaaaaat taaaggaagg ggggaaaagg 480
 aaagggggaa aaaaaggaga aaaggggaaa aaaaaatggg aaagaaggta ag 532

<210> 6268
 <211> 520
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-064-Q1-N6-B11
 <400> 6268

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 ccacaacggg gggggggggca tcaaagagaa ctggttgat ggagcaatt gttgctgctg 180
 taggaaggca gcgaccaatg ggtagccac cgctagtga ttaagtaact gttgctgctg 240
 ttgtaggtac gcagcagagt tcgacacagt cagttgggtg aatggaagca gctgttgcaa 300
 gtaggcagca gggtttgcca cagctagctg agtcagagct ggtacaatct gttgcagcaa 360
 ctgttggtgc aggtatgtag gtgcattaac cacagcgaga gggctagatg aaatcagttg 420
 ttgctgttgt aggtaggcgg caggggtcac catggctagt tgactgagcg ctggtagaaa 480
 ctgttgcaat tgtgtgtgtt gttgggtatgc aactatgttt 520

<210> 6269

<211> 583

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-N6-B12

<400> 6269

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 ttaataattt tatagctcat aaaaatgata atcttgcaag ttttacatgc atacatagtc 120
 ctgcaattct tggctatatg taggtataga gtgtttcatg ctctgataaa acagcattac 180
 taacaaacag gggggggggg gggggattgt anagtattac taaaaagta caaaacaggg 240
 acaatatgca tggagtgcag tgcttgaaa ggtacgatta gacattgtgc acgggggtcg 300
 acacatgggc tatgaaaaaa gtctgcagc ataggatcag ttccgtgaac ggctccaggt 360
 tgatgaagag gacgttgagt tagagggaaa tcttgatcca cgccagcgat cagtatcttg 420
 ccgtgatgag ggtgcatcca gtcgtgcagg aggaccatct tgctgagcg gaccacgtga 480
 accccagcga tcttcacgc ggctgcaaaa aggatgctgc tgctatcacc accgcttta 540
 aacttgggaa tatatttact aggagcagga gcaggagcag cca 583

<210> 6270

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-B3

<400> 6270

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ttattgaact ataaccatc attggtgggg ccctctttta gatttcttat gagttatagt 120
taaataataa agtgaggggg gggcgccgcc aatgatgggg catgggtcac tgctgatgtc 180
agggggcgga agtgtgaggc gccccgggcg tgagaagcac attcctggat gcttgagca 240
acagg 245

<210> 6271

<211> 525

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-B4

<400> 6271

atcacaagaa caaatccgga tcccccttaa ttattgttcc ggatgaacga tccgagaaaa 60
gcattcatct tcttgctggg cttattattc agacatatga gctagctaca agctcattcc 120
tcatgcacta tgctcttcgc agttacttgg agggcatcgt tccgcccgcg agaatccagg 180
ggcattcggc gacgccgctg atggtggcca ggttgactc ggcctccgtg acgaggggtg 240
cggcgaatcc cctttgcacc tcccgcgggc agcccggcag gtcctttagg cggccctcca 300
gctgcgcgtc cgggcccggc gggatcgcgc cgtccatgag gatactcagc gccgtgcacc 360
ggcagtacgc cgggatgtcc gccagctccc ggcagcatct cctcttcagc tccggccacg 420
ggaggcgcgg cccgatgccg caggtccggc tggtcacgta ccagcggcag ctcgggagcg 480
ggttgtgcgg gatggccac cccggcacgc aggaggtccc ggccg 525

<210> 6272

<211> 518

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-B5

<400> 6272

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gaactataac tcataagaaa tctaaaagag ggcaccacca atgatgggtt gttggtagaa 120
 cactgctagg tttgtcaaag caagttgggtt gaatggcagc aattgttgca gttgtaagag 180
 ggtgccagcg ttaggcgcag cgtgctggta gaacggcaac aactgtgggtt gtgtcaagaa 240
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 agcaggagag ttcaatgctg ccagttgggtt gaatggaaga aattgttggg ggtaggcaac 360
 aggtagctgg ctgaatggta gttgttggtt ttgcaaataa gaagcagagt tcaatgcagc 420
 tagttgggtt aatggaagaa actgctggtt ctgagagtag gcagcaaggt ttgctagcac 480
 aagttgttgt agttgttgtg cctgatggtt ttgtgcc 518

<210> 6273

<211> 529

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-B7

<400> 6273

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 tgctgggttt gtcaaagcaa gttggacaaa gggcagcaac tggtgcagtt gtaagagggt 180
 tgcgggggtta gccacaaact gctggtagaa cggaagcaat tggtgttggtt tcaaaaagga 240
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 agtagctagc tggctgaatg gtagtagttg ttgttggtgt aaataagcag cagggttcag 420
 tgtaaacagt tggttgaatg gaagaaattt tggtgctgag ataggagaa agtttgccaa 480
 aatacttggc tgatcactgg tagcaccagt tggtgcagct gttgtgcc 529

<210> 6274

<211> 510

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-B9

<400> 6274

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actgttgggt ttgtcaaagc aagttgggtg aatggcagca attgttgagc ttgtaagagg 180
gtgccagcgt taggcatagc gtgcaggtag aacggcaaca actgttggtg tgtcaagaag 240
gcagcagggc tcacatcagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
gcagcagagt tcaatgctgc tagttgggtg aatggaaaaa attgctgggg gtaggcagca 360
actagctggc tgaatggtaa ttgttggtgc aaataagcag cagagttcaa tgcagccagt 420
tggttgaatg gaaaaaactg atgttgctga gagtatgcag caaggtttgc tagcacaagt 480
tgttgtagtt gttgtgccct gatgttttgg 510

<210> 6275
<211> 522
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-064-Q1-N6-C1
<400> 6275

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aactgggtat tggcggcgag atgacggatc ccaatcggcg tcaatctatc taagcttaaa 120
cccttcacga caagaggcac acgatcgcca gcaccgcgc gatagtccaa gatgcagtgt 180
cccttgctgc gttgttcttc tgatctgcag gcggttgcc gtccgcgtcc ggcgaaggag 240
ctggggtagt gtgctctggc gatggcgctg ggcgactcct gggcgcaggc gcagtcaccg 300
gagcaggggc aagtgggggt gtgggtgcat gtgcaggcga cggcgacggc gagaccggt 360
caggggcagg cgacggcgag accggcgcaa gggcaggtgt aggtgcatgt gcaggcgagg 420
aggccggcgc agggggcggc gcagtgtgtc cctggtcgtc gttagactgc tgccttggca 480
ggagcaccgc gtcgatgagg tagacggcga gcgggcctt gt 522

<210> 6276
<211> 540
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-064-Q1-N6-C12

<400> 6276

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accattatcg attacatctc atatgtaatc taaaaaaggc acctccaacg atggggttgct 120
gccacgacaa ggcaggggttc atcaaagaga ctggctgtat ggtagcaatt gttgctgctg 180
taggaaggca gtgaccaatg ggtagggcac tgctagtggg ttaagtaact gttgtcgctg 240
ttgtaggtac gcagcagagt tcgacacagt cagttgggtg aatggaagca gctgttgcaa 300
gtaggcagca gggtttgcca cagctagctg agtcagagct ggtacaatct gttgcagcaa 360
ttgttggttc aggtatgtag gtgcattacc cacaacgaga gggctagatg aaagcagttg 420
ttgctgttgt aggtaggcgg caggggtcac catggctagt tgactgagcg ctggcagaaa 480
ctgttgcaat tggtgttgtt gttggtatgc agctacgttt gccagagcaa gtgggttggc 540

<210> 6277

<211> 525

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-N6-C2

<400> 6277

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gtatattccc acggactccg aacataaact agcagtaaca atagaataca gcaaccacac 120
aagtttgatg ccaaacagtt cgcacaacgg ggtagggcgc gcagatggag ctttgcttga 180
caaagcacca ctcgagagca tttttggtcc ctgcctaaat tgaaaatccc tagccctagt 240
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tcagcacata accttctctc tgctgcccgt catcaaggaa ggacctatcc gactggtcaa 360
ccgaaccaga ctcgattttg ccggcacagg tggagcaagc cccagcacgg gacgagtatg 420
gcaacttcac accggcagtc tcggctgcgt caaggatgta ggcgtcgtct ggagcatcaa 480
actcgggctc ttcaccttca ggcccgacaa gccggacgcg tgggc 525

<210> 6278

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-C3

<400> 6278

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cccgaaaagg cccttttttt tggggggggg tttttttaa aaaaaaagg ggctcccaaa 120

gcccttcccc caggccctt ttttttggg gatgcggggg gggggtttcc cccccccaa 180

aaaaacgggg ggctttgggg cccccgggg gggggggcgg ggggcccc cccccgggg 240

gggggggggg ggaaaaacc cttttaccc cccggggggg acccggggg gcctttgggg 300

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ccccccccc ggggacccc gggggttccc ccccccccc 400

<210> 6279

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-C4

<400> 6279

aggttcttac acaaggcttc aaactcgcaa taacatgtgc acttgtcaaa tagacacgtc 60

tcaacttttc tctacaagga gtcaaaaaga aaaacgattg gaaatgaggc aaaaaataaa 120

aaagtccacc gtgctggacg atgctagaaa aagtctgtcc taacaattac tttattattg 180

gtaccggatc caacctctgt ctcaatccat ttatgcaagg gatggtgatt tctagttccc 240

aggtatcatt atccttcgat gctgaggggt tggagacttg gaggacatac atcatcaagc 300

cttgtttact tgtcagacgc cttggcgcc atcggatatc ttgtggagat ggagtttaac 360

agatataat 369

<210> 6280

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-C6

<400> 6280

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 gccacgacaa ggcaggggttc atcaaagaga actgggttgta tggcagcaat tggtgctgct 180
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 gttgtaggta cgcagcagag ttcgacacag tcagttgggt tgaatggaag tagttgttgc 300
 aagtaggcag cagggt 316

<210> 6281

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-C7

<400> 6281

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 ccagaataag aaagtacatt tctaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggggg ggccgctctc 300
 tttaaaaaaaa acaccccccg ggggggtccc cccgaaaaaa ccgcgacccc acc 353

<210> 6282

<211> 499

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-C8

<400> 6282

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 ggccacgagc gaccaacggg ggggaaaaaa aaagaggggg gaggaaacgg gcacgcccgc 180
 tggcccgcgc ggggggcgaa ggggggcagg ggggggccag gaaaactcac ggggacggcg 240
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ggcgagaggc cgacaggggc cccaccgcag cccccacctt cgcccgaccg cgcccgcgcc 360
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 acccaccg cgggcacggga ggagggcacgg gggggggaac ccagggggcac cccaagcgca 480
 ggggacaacc cccaagga 499

<210> 6283

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-C9

<400> 6283

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 atgcttaact atggacacac ctaattttgc gcttttagcca cattcttcga acattgtggt 120
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<210> 6284

<211> 497

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-D1

<400> 6284

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 aaggaacccc agatttcaca aagagagaga agttcctaag cacaactatg gaaggggctt 180
 gaagggggcg ccgccgatag aaggggaccg ccgaccccg aaaggggaca aaagggggga 240
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 cccaacacg gaagggcctt acttgaagca cgaggggggg cgctgagatg gaagggcaag 360
 gagggcccgc caaacatgga ccgggggatg ggtccaaaac aaaggggaag gcggggaacag 420
 cctcataggg gccacaaaaa caaaaggggc cccatgcccc aaccacactt tgaatctgaa 480
 gggaccatta acgccac 497

<210> 6285

<211> 522
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-D10

<400> 6285

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cctcggcagg gcaggattca tcaaagagaa ctggttgtat ggcagcaatt gttgctgctg 180
taggaaggcg gcgaccaatg ggtagccac taccaatgga ttaagtaact gttgtcgctg 240
ttgtaggtac ccagcagagt tcgacagagt cagttgggtg aatggaagca gctgttgcaa 300
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<210> 6286
<211> 542
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-D11

<400> 6286

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atgggttggt ggtagaacac tggtgggttg gggagaagca agttggttga atggcagcaa 180
ttgttgcaat tgtaagaggg tgccagcggt aggcatacgct tgcaggtaga acggcaacaa 240
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ttgttgctgc tgtaaataag cagcagagtt caatgctgct agttggttga atggaagaaa 360
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aaggtttgct agcacaagtt gttgtagttg ttgtgccctg atgttttgtg ccaccaaagt 540

<210> 6287
<211> 534
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-D12

<400> 6287

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aaatgtacag ctacatcaaa aaacaagttt agaagccatt acaaaagcgt acataacgct 120
aaactagcaa gaaagatggt tcttggcgca tgtaaatcgt tgtggcgta catctcagta 180
cgagaccaag cctttgtttc catcagcatc agggctgctg gacctcgagc tgctgctgcg 240
cctgcggttg tatctcgagc tctccctctt ggctggggca gcatcaggag acctggatct 300
caagggatcc aggctcttcg acctggacct gttgttggca ggggggctgt ggccacgggtg 360
gtcaggaccg cctccaccgt gacctgatcg aggcctatcg ttgcacgcgc gtctcgggtc 420
tgcagggctg cggctgcgcc ttgggctggg gcggcgatac cctccacggt catgacgcgt 480
cgccgggctg cgtgacctgc tccggcctct tctttggtac ctggatgggc tatt 534

<210> 6288
<211> 507
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-D2

<400> 6288

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taaactagcg agctaggtag ctagtcagcg gctccattac attattacta cagtacatag 180
tttccctcagt agtagacacc gccggcagct gcgttgcaag ggcagggacc tggctgctgc 240
agctgcaggc cgcacatcgc cgtcagctgc tgcgctacct gggccgccat cagcgccgcy 300
agctcgccct ggggctgctg ctgcaggaag gactgcagga ccacaccgta tgtcgccctgg 360
taccggtgca ggggctccac ctgcctgatc tgggtggcagc actgctgctg cagcgccctgg 420

cactgtggcg agccgtaggg cgtcgccgcc gggctgcact ggtgcctcag gaactcgacg 480
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<210> 6289

<211> 535

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-D3

<400> 6289

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 agaacgctgc tgggtttgtc aaagcaagtt ggttgaatgg cagcaattgt tgcagttgta 180
 agaggggtgcc agcgtaggc gcagcgtgct ggtagaacgg caacaactgt gttgttatca 240
 agaaggtagc agggctcaca ccagctagct ggctgaatgg tagtagttgt tgctgctgta 300
 aataagcagg agagttcaat gctgccagtt ggttgaatgg aagaaattgc tgggggtagg 360
 cagcaggtag ctggctgaat ggtagttggt gttgttgcaa ataagaagca gagttcaatg 420
 cagctagttg gttgaatgga agaaactgct gttgctgaga gtaggcagca aggtttgcta 480
 gcacaagttg ttgtagttgt tgtgccctga tgttttgtgc caataaatgc accaa 535

<210> 6290

<211> 516

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-D4

<400> 6290

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 atggcggaag aaattaccgc cgacagatcg acgcatgcgc acggggccaa gaaagaaaca 120
 cacagcaaca ataggatata acgatgtaca gggccaggtc aacaagctag gcgggtcttt 180
 gcctacacta cactgtcttg ctgccggccg cgtcggcgac ggcggccact tttttttcca 240
 gctcaggctt gttggcgccg accagcttgt ccacctgctg ctcgttcttg aggaaaaaaa 300
 agtcggggtc gcgcggatgt cccacgacga gctgaactcc atcaagtcac caacatcgat 360

cgtcaggaac atgagctgag ggtacgtctg cgacatttcg gcgtaaacag gtgcgatgac 420
acggcacggc ccacaccagg aagcgctgaa gtttgcaacc acggttttcc catccttggt 480
tgctcggca attctttggt cccagtcctc tttgct 516

<210> 6291
<211> 523
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-D5

<400> 6291

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cactctaaag ctttgacaac actcctatgt caaaaccctc accatccaag cactgaatcg 120
gtgtgcatgt ggcagggaaa aaccatatgt aaacctcata caaggatcga ctaatcttct 180
tttttgctgt ctgaatcttc aagagcttgc agcctctcga cgagtgggtg gtgggagtag 240
tgatatgccg aataccaagg atcgggtgtc atcgcagaca agttctcctc ctgtagttta 300
acaagggctg ctcgagctg aggggcatat ccaaggttct tggcaaaggc atcagcctga 360
aattcaaatg ctctgctgac aagggtcagg caaaagctca gaagggtgtg gatgggtatt 420
atgggtgtgct ggaaaatgat caatccaatt attactggct ggtccttgaa gccaaaactt 480
ccaaatagat ctttgagct ccttactaga gtatatactc caa 523

<210> 6292
<211> 535
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-D6

<400> 6292

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ctataactca taagaaatct aaaagagggc accaccaatg atgggttggt ggtagaatgc 120
tgctgggttt gtcaaagcaa gttggttgaa tggcagcaat tggtgcagtt gtaagagggt 180
gccagcgta ggcgcagcgt gctggtagaa cggcaacaac tgtggttggt tcaagaagggt 240
agcagggctc acaccagcta gctggctgaa tggtagtagt tggtgctgct gtaaataagc 300

aggagagttc aatgctgtca gttggttgaa tggaagaaat tgctgggggt aggcagcaga 360
tagctggctg aatggtagtt gttgttggtg caaataagaa gcagagttca atgcagctag 420
ttggttgaat ggaagaaact gctgttgctg agagtaggca gcaaggtttg ctagcacaag 480
ttgttgtagt tgttggtgcc tgatgttttg tgccaataaa tgcaccaaag gtaac 535

<210> 6293

<211> 522

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-D7

<400> 6293

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atgatgggtt gttggtagaa cactgttggg tttgtcaaag caagttgggt gaatggcagc 120
aattgttgca gttgtaagag ggtgccagcg ttaggcatag cgtgcaggta gaacggcaac 180
aactgttggt gtgtcaagaa ggcagcaggg ctacatcag ctagctggct gaatggtagt 240
agttgttgct gctgtaaata agcagcaaag ttcaatgctg ctagttgggt gaatggaaaa 300
aattgctggg ggtaggcagc aactagctgg ctgaatggta attgttggtg caaataagca 360
gcagagttca atgcaccagc ttggttgaat ggaaaaaact gatgttgctg aaagtatgca 420
gcaaggtttg ctagcacaag ttgttgtagt tgttggtgcc tgatgttttg tgccaccaa 480
tggaaccaaag gtaactgctg taatagggtc gacggttggt gg 522

<210> 6294

<211> 542

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-N6-D8

<400> 6294

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tttttttttc tttttttttt tttttttttt tttttttttt ttttttttat tttttttttt 120
tttttttttt tttttttttt tttttttttt ttttnntttt tttttttttt ttttgggggg 180
ggggtttttt ccaaaatttt tttttttttt ttgggggggg gggaaacccc ccttaaaaaac 240

tttttttttt tcccttttcc cttaaaaaaa tttaaaaggg gccccccccc atttgggggtt 300
 tttgggaaac ccccttggtt tttttaaaaa cctttttttt tttggggcca tttttttttt 360
 tttttaaagg gggccccctt tttgcccccc cctcctttta aaaccccccc cccttttttt 420
 tttttaaaaa ggggtggcgtt ttcccccccc cttctccttt tatgggggtt tttttttttt 480
 tttttaaaaa acccgggaaa ttcaatctcc cctttttggt cgaaaaaaa aaaatttttg 540
 gg 542

<210> 6295
 <211> 533
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-D9

<400> 6295

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 tcgagtacat ctcatatgta atctaaaaga ggcacctcca acgatgggtt gctgcctcga 120
 caagacagga ttcatcaaag agaaccggtt gtatggcagc aattgttgct gctgtaggaa 180
 ggcagcgacc aatggggttag ccaactgcaa tggattaagt aactgttgct gctgtttag 240
 gtacgcaaca gagttcgaca tagttagttg gttgaatgga agcagctggt gcaagtaggc 300
 aacagggttt gccacagcta gctgagttag agctggtaca atctgttgca acaattcttg 360
 ttgcaggat gtaggtgcat tggccacagc gagcgggcta gatgaaagca gttgttgctg 420
 ttgtaggtag gcggcagggt tcaccatggc tagttgacta agcgctggca gaaactgttg 480
 cagttgttgt tgttgctggt ttgcaactac gtttgctaga gcaagtgggt tgg 533

<210> 6296
 <211> 552
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-N6-E1

<400> 6296

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cctccttatg ctccttggtc tttctgcaag tgctgctacg gcgaccattt tcccacaatg 120
 ctcaacagct cctatagctt cccttcttcc cccgtacctc tcaccaacgg tgtcttcggt 180
 atgtgaaaac ccaattcttc aacctacag gatccaacag gcaatcgag ctggcatctt 240
 acctttatca cccttggtcc tccaacaatc atcagcccta ttacagcagt tacctttggt 300
 gcatttattg gcacaaaaca tcagggcaca acaactacaa caacttggtc tagcaaact 360
 tgctgcctac tctcagcaac agcagtttct tccattcaac caactagctg cattgaactc 420
 tgcttcttat ttgcaacaac aacaactacc attcagccag ctatctgctg cctaccccca 480
 gcaatttctt ccattcaacc aactgacagc attgaactct cctgcttatt tacagcagca 540
 acaactacta cc 552

<210> 6297
 <211> 541
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-E10

<400> 6297

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 ctataactca taagaaatct aaaagagggc accaccaatg atgggttggt ggtagaacgc 120
 tgctgggttt gtcaaagcaa gttggttgaa tggcagcaat tggtgcagtt gtaagagggt 180
 gccagcggtta ggcgcagcgt gctggtagaa cggcaacaac tgtggttgta tcaagaagg 240
 agcagggctc acaccagcta gctggctgaa tggtagtagt tggtgctgct gtaaataagc 300
 aggagagttc aatgctgcc a gttggttgaa tgggaagaaat tgctgggggt aggcagcagg 360
 tagctggctg aatggtagtt gttggttggt caaataagaa gcagagttca atgcagctag 420
 ttggttgaat ggaagaaact gctgttgctg agagtaggca gcaaggtttg ctagcacaag 480
 ttgttgtagt tggttgccc tgatgttttg tgccaataaa tgcaccaaag gtaactgat 540
 t 541

<210> 6298
 <211> 549
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-E11

<400> 6298

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cacatacatc atccaaaaaa tttattattg aattacaact aataagcaat ctaaaagggg 120
caccaccaat gatgtgttgt tggtaggagg cggggtggtg gggcaaagca agttggacaa 180
agggcaacaa ttgttgtagt tgtaagaggg ttgcgggggt agccgcaaac tgctggtaga 240
aaggcagcaa ctgttgctgt gtcaagaagg aagcacgggt tgctgcagct agctggctaa 300
atggtagtag tatttgctgc tgcaaataag cagcgggggt cagtgcggcc aattggttaa 360
atggaagaag ttgttgttgc tgagagtagg cagtagctag ctggctaaat ggtaatagtt 420
gttgctgcaa ataagcagca gggttcagtg tagacagttg gttgaatgga agaaattgtt 480
gttgctgaga gtagggagaa aggtttgcc a gagctacttg gttgatcaga ggtagcacga 540
gttgctgca 549

<210> 6299

<211> 516

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-E12

<400> 6299

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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt ttttctttaa attttggggg ttgttggggg tattaataat attaaaaaaa 180
tggacaacca aaaaaaaatt ttttaatagg gggggggggg cccctctcaa aacacaaaaa 240
aaaaaaggga aaaaaaaaaa aaaaaaaaaa aaaaaaaaag gggccccccc aaactttttt 300
aataaaagaa aaattttttt tttttaaaaa aaaaaaaaca aaaaccaca caatttttta 360
aaaaaaaaaa attttttttt ttcccaaaaa aaacatctaa aaaaaaaaaa ttcaattttt 420
ttataaaaaa aaaaaacatt tttttttcaa ttccccta atatacatcg aaaaaaatat 480
attttataaa aaaaaaaaag aaaaattttc cccctc 516

<210> 6300

<211> 492
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-E2

<400> 6300

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acactatatt gaactagtcg acaaaactgg ggcaaaacaa gtcgacagac aggagacag 120
ctaaccacac atagaaatca ctcaatttcc gccatctttc gcccatcagt gctctgtacc 180
gggctccccct ttggcgccag gggaatcatc ggccggcttc ttgtacttgt accagctggc 240
gatgacgagg taggcaagga agttgaggag gctgagcact gcgagcagcc agaaaaagta 300
gtcgagggggg ccgcggttga ggttctccgg gatccaccg atgcggccgt gcctgggggt 360
gatgtgggtg accatggtca ccaggaccgt gctgaggtag ttgccgagcg cgacggtggt 420
gagcgacagc gccgagcaca tgctcctcat ggggtcgggc gcctggtcgt aaaaaaactc 480
cagctgcccc ac 492

<210> 6301
<211> 486
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-E3

<400> 6301

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tgctgggttt gtcaaaacaa ggtggttgaa tggcaacaat tggtgcagtt gtaaaagggg 180
gccagcgtaa ggcccaacgt gctggtaaaa cggcaacaac tggggttgta tcaaaaaggg 240
agcagggctc acaccaacta gctggctgaa tgggaatagt tggtgctgct gtaaaaaaac 300
aggaaagttc aatgctgcc a gttggttgaa aggaaaaaaa tgctgggggt aggcaacaag 360
taactggctg aaagggaatt gttggtgttg caaataaaaa acaaagttca atgcacctag 420
ttggttgaaa ggaaaaaact gctggtgctt gaaagaaggc aacaaggttt gctaacacaa 480
attggt 486

<210> 6302

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-E4

<400> 6302

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cgaacatata aaaccatgat ggggcatatg acatatataa aacctttatt tagcatatatt 120
ggagtagccg gcctggtggt gaaaccaaac taaagttggg gcagggagac accgatcgca 180
gggacgagcc tgggcgtcgc gcgtccataa aaaccacaaa tgctgctgcc gatgggcgcg 240
gggatgcaaa aacggggggc gctttcgatg ccccatggcc cccaagcttt gggggggctg 300
gggacaatcc tgaacgaggg aaggggagtc ccacctttaa atgcgccgga cgttccaaaa 360
acttccttga cgtattcagg ggcgccaaaa acgagcttcc gggacgttgc cgccaagtcc 420
acccattgc ccaagggggc gcgtttgacc acctgtgtcg gtactggagg ggaacc 476

<210> 6303

<211> 507

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-E5

<400> 6303

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ttatgaactg tacaacaacc acagctgcca catagagata cagttgctcc ctgttttttt 180
ccccgcca ccccgttag tccactacc tagttctgag ttcatttctt ctacacacag 240
ctggagtctg aatcgctga ccagttgtca ggcccgagc ttcgcgaaga ggctgccgaa 300
ggaaaaaag ctgctcctga ccagtgctgc ggagcttggc tccgccgctt tggccaccgc 360
agcaggcacg cccacgtctt tgacgttgag catggcggtc tggccaaact ggcccctgag 420
cccctcgacg gtcttcatgt ccactggctg gcccgagggg ttccggacgt aaaaaacgtt 480
tgtggcctgc ccgcccgcg tcgtcac 507

<210> 6304
 <211> 539
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-064-Q1-N6-E6

<400> 6304

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 aggaggctgc tgggtttgtc aaagcaagtt ggacaaaggg caacaattgt tgtagtgtga 180
 agaggggttc ggggttagcc gcaaactgct tgtagaaagg cagcaactgt tgctgtgtca 240
 agaaggaagc acgacttgct gcagctagct cgctaaatgg cagtagtatt tgctgctgca 300
 aataagcagc ggggttcagt gcggccaatt ggtaaataatgg aagaagttgt tgttgctgag 360
 agtaggcagt agctagctgg ctaaagtgtg atagttgttg ctgcaaataa gcagcagggt 420
 tcagtgtaga cagttggttg aatggaagaa attgttggtg ctgagagtag ggagaaaggt 480
 ttgccagagc tacttggttg atcacaggta gcacgagttg ctgcagctgt tgtgccctg 539

<210> 6305
 <211> 540
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-064-Q1-N6-E9

<400> 6305

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 atttacgtca ggtggtctcc gttttttttt cattttccct ttcatttgaa ctgcggtg 180
 caaagcgctt ccacagatcc ttgactcaat acaaggaaaa gcgaactcta ggtaattttg 240
 gtccttgggc aattcgattc aggtagttcc ttcagctggc ttcggtttcc ccaaagtcgt 300
 caacctcaat ctgagtgggtt ttcttggggc agttcctgtc gattgtgcgc cagcaacagt 360
 ggatggggcg gcaagctcaa gtggctcgag ctcttgattc gctttgcgct tcagattatc 420
 attagaatct tggggcctca gactgcatat ttgttccaaa ttattttcag aaccgatctc 480

caaagatgggt ctccgttcag catttacatc ttcttgggta gctttaattt gattagagga 540

<210> 6306

<211> 506

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-F1

<400> 6306

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gaaagccaaa ctgaaaacaa gggtcgctcc ttgctaaaga gtagtaaaac ggggggtaag 120

ggcaccatcc aaaaagcaca taaacgatta acgctggcat ctacctccat ttacacaggc 180

cacaattgct ctagaactca tcattatgta gtagcagggg gtgtaacaag ggacaatatt 240

cagaggcaga aatatgggaa tggcgtcttc gggccgacgc aactaaagct tgcattgaggc 300

tggggagcaa gggcatcttc aaactgggtga ggggattttg aactgggtta gtatctggag 360

tttttggcgt agaagggtt ttgccccac gattctctct cgggttttagc tcgattttca 420

gcctctccat cctccaagtt caaccgcttt ggggttccttg acttcgaaga cttcgtagac 480

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<210> 6307

<211> 532

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-F10

<400> 6307

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gtgtgtcgtc ttactgcatt attacatata tagatagaga gagatggata gaggagattt 120

cccaaatac atgaatcagt agtagggcgg aatggcagcg gagacgccac aggggttggt 180

gcggtagctg ggcagctggt actggtagag tccacccatg gccggcatgt tctgcgccat 240

catcatggcc atggggttga gaccctgggc tgccagcagc tgctgctgct gctgcatcag 300

agctggctcg tacaggctgc tgctggcggc agcggcacgc tcaagctgca tcatcatctg 360

cagctgctgc ggcacggact gcacgtccat catcctcatc tgctgctggc agcactggtg 420

ccggagcggc tggaacatgg cgctcggtg cccacacccg gcgtagtagg gcgccgccgc 480
cagcgggctg cactgcggt gcctcaggta ctccgcgtag gggtagagcc cg 532

<210> 6308
<211> 560
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-064-Q1-N6-F11

<400> 6308

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ggatgcgtga cacattatta ctcaatcatc gccgctaaat gactcaacta gctaggtggc 180
cggcggctat actacagcac atagtttctt cagtggggga caccgccggc agcagcgtag 240
gggcatggag tcggctgctg caggccgcac atcgccgtca gttgctgcgc tatctgcgcc 300
gccaacagcc ccgcgacctg gccgctttgc ggctgctgct gcaggatgga ctggaggacc 360
aagccgaaga tcgcctggta ccggtgctgc ggctccacct gcctgagctg ctggcaacac 420
tgctgccgca acgactggca ctgagggcag cagtagggcg tcgccgtcgg gctgcactga 480
tgctcagga actcgacgca ctggcccagg atcggggtgc tgccaacgcc gcaggttccc 540
tgcagctggc acgggcttgg 560

<210> 6309
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-F12

<400> 6309

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tttccaaaaa aaactttccc cttaaattgga gggggggggg aattaatccc cacaaatggc 180
ccccacccc cctagggaaa aggaaaaaaa aggggaacct tgttaaaaaa accaaggtcc 240

ccaaaaaac aaaacaaccc ccaaacccaa acactccaaa atccaaacca tggggtaaaa 300
 aaaaaaaac aaatttgaaa ccctttaaaa cccacacttt ttttttcaat tttttccggg 360
 cttacttta aaaaccacca aaaagtaaaa aaccctttc ccctttaaca cttttgagac 420
 ctt 423

<210> 6310

<211> 533

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-F3

<400> 6310

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 agaatgctgc tgggtttgtc aaagcaagtt gggtgaatgg cagcaattgt tgcagttgta 180
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 agaaggtagc agggctcaca ccagctagct ggctgaatgg tagtagttgt tgctgctgta 300
 aataagcagg agagttcaat gctgtcagtt gggtgaatgg aagaaattgc tgggggtagg 360
 cagcagatag ctggctgaat ggtagttgtt gttgttgcaa ataagaagca gagttcaatg 420
 cagctagttg gttgaatgga agaaactgct gttgctgaga gtaggcagca aggtttgcta 480
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<210> 6311

<211> 529

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-F4

<400> 6311

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 actgctgggt ttgtcaaagc aagttgggtg aatggcagca attgttgagc ttgtaagagg 180
 gtgccagcgt taggcgcaac gtgctggtag aacggcaaca actgtgggtg tgtcaagaag 240

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gcaggagagt tcaatgctgc tagttggttg aatggaagaa attgctgggg gtaggcagca 360
ggtagctggc tgaatggtag ttgttggttg tgcaaataag aagcagagtt caatgaacct 420
agttggttga atggaagaaa ctgctgttgc tgagagtagg cagcaagggt tgctagcaca 480
agttgttgta gttgttgctg cctgatgttt tgtgccata aatgcacca 529

<210> 6312
<211> 534
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-064-Q1-N6-F6

<400> 6312

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aaaactttat tattgaatta caactaataa gcaatctaaa agaggcacca ccaatgatgt 120
gttggttgta ggaggccgct cggctctgtca aagcaagttg gacaaagggc aacaattgtt 180
gtagttgtaa gaggggttgcg gggttagccg caaactgctg gtagaaaggc agcaactgtt 240
gctgtgtcaa gaaggaagca cggtttgctg cagctagctg gctaaatggg agtagtattt 300
gctgctgcaa ataagcagcg gggttcagtg cggccaattg gttaaatgga agaagttgtt 360
gttgctgaga gtaggcagta gctagctggc tgaatggtaa tagttgttgc tgcaaataag 420
cagcaggggt cagtgtagac agttggttga atggaagaaa ttgttggtgc tgagagtagg 480
gagaaagggt tgccagagct acttggttga tcacaggtag cacgagttgc tgca 534

<210> 6313
<211> 550
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-F7

<400> 6313

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tatacaaata cgtaccagtg ccaacagatc gtacataaat aaaccatattg ccaacgtgcc 120
tgagatcat agggcatttc attcgggtga caaaataagg gatggctcact gtgtgtgatg 180

ccgtaaataa agtacatcaa acattgtacg caccgaccagc gctgcaactg aaactatcct 240
gtcatacaat caataagggtg ttctgtctagt ctaccatcca acgatacagc actagcaaac 300
tctccgaacg aactatgcgg gtctgaccaa ctcttccccg catatgctca caagtttggg 360
aacttagtac tgtattcctg atcggacata aatgtcgtg taatcatctt tccggcgaac 420
catcttccat gaagtgcctg ttgggccttc cctgctgcag ttacactatc gaactgcaga 480
tacacgaagc ctgcagtatt tttgtcaaca aaaatatgct tcaactgcacc aaacttggaa 540
cattcatctt 550

<210> 6314

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-F8

<400> 6314

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ggccccctt tggggcccc cccaaagggg aaaaaaaaag ggggcccccc ccccgggggg 120
ggggcccccc cccaaggggg gtttcaaaaa aaaacccccg ggggggggaa aaaattgggc 180
gggggggggg gggggcccc ccaggggggc ccccccccc aggggaaaaa aaaccggggg 240
ccccgggggg gggccccca aaaagtcccc aaaattgggg ggggaaaggg aaaacccttt 300
ttaaaaggga aaaaaggggg tcccc 326

<210> 6315

<211> 512

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-F9

<400> 6315

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ttattgaatt acaactaata atcaatctaa aagagggcac caccaatgat gtgttggttg 120
taggaggctg ctgggtttgt caaagcaagt tggacaaagg gcaacaattg ttgtagttgt 180
aagagggttg cgggggttagc cgcaaactgc ttgtaaaaag gcagcaactg ttgctgtgtc 240

aagaaggaag cacgacttgc tgcagctagc tcgctaaatg gcagtagtat ttgctgctgc 300
aaataagcag cgggggttcag tgcgggccaat tgggttaaag gaaaaagttg ttgttgctga 360
gagtaggcag tagctagctg gctaaatggg aatagttgtt gctgcaaata agcagcaggg 420
ttcagtgtaa acagttgggt gaatggaaaa aatgttggtt ctgaaatagg gagaaagttt 480
gccaaaatac ttggttgatc acaggtagca cg 512

<210> 6316

<211> 378

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-N6-G1

<400> 6316

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gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 120
gggggggggg gggggggggg gggggggggc cccgaagggg gggggggggg gggcggggcc 180
gggggtgggg gtgagggggg gggggggggg gggggggggg ggggcccggg gggggggggg 240
gggggggggg gggggggggg gggggggggc cccggggggg gggggggggg ggggnaaaat 300
tttttggggg ggggaaccct cttgccgggg tgggtggggg aaggaaaaaa ggaggggggg 360
aagaagaaaa gggggggg 378

<210> 6317

<211> 551

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-N6-G10

<400> 6317

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tttcatttca attgttcatt caggtcattg ctccactga cactgccacc catgggggatg 120
cgtgacacat tattactcaa tcatcgccgc taaatgactc aactaggtgg gggggcagcg 180
gctatactac agcacatagt ttcttcagtg ggggacaccg ccggcagcag cgtaggggca 240

tggagtcggc tgctgcaggc cgcacatcgc cgtcagttgc tgcgctatct gcgccgcca 300
cagccccgcg acctggccgc tttgcggtcgt ctgctgcagg atggactgga ggaccaagcc 360
gaagatcgcc tggtagcggg gctgcggtc cactgcctg agctgctggc aacactgctg 420
ccgcaacgac tggcactgag gcgagcagta gggcgctgcc gtcgggctgc actgatgcct 480
caggaactcg acgcaactgg ccaggatcgg ggtgctgcca acgccgcagg ttccctgcag 540
ctggcacggg c 551

<210> 6318

<211> 545

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-N6-G11

<400> 6318

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gcattgcagt tcggggaaaa atatacacag attaattatt acagacctga ttccgtaagt 120
taatgaaagc cctaataaac aagcaaagaa acntacaaaa actgtggggg gggggggggg 180
gcaaataaat gaatacaca gacagacaat caaagacaca cgcgcagtag agtactctgc 240
aacgacgact aaccggttgg ctagtattta gtgctggaag tccttggtgg ggggcgtggg 300
ctggtacccg acgccgtgcc ggttgttggg gaacaccatg aagacgtagc ccgcgacggg 360
gccgacgacg ggcgggagca cggccattat ggggggcttg gggagctcca gcgccgggta 420
gaggcaggcg acggtgtcgg tgttaaggag cgcgaggggt gggaagacga gcagtaagag 480
cgcggtgtgc gcaaagtcgt cggcgcgga gcggtactcc gtcaggctcc gggcgggggc 540
atccc 545

<210> 6319

<211> 529

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-G2

<400> 6319

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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttttt tttttttttt ttggaaattt gggggggggtt ttttgggggg gcccttttct 180
 tccccaaaa acctttttttt ggggttcccc cttaaaagcc ctttaaaagg ggggcccccc 240
 catggggggtt ttggggggga gggggggggg ggttttaaaa aagggggggg aaaggggggc 300
 ccccttgggg ggttttaaaag gggggggggg ggttcccca aaccgggggg aaaaaggga 360
 cccttttttt tttttaaaaa agggaagggg gtttttttta ctttgggggc ccaagggggg 420
 gagtttttgg ggggggaaaa aaaaaagggg ggttaagggg ccccttggt ttataggga 480
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<210> 6320

<211> 555

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-G3

<400> 6320

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 gaaagtactt ctattcttgg ttggccacat acatcatcca aaaactttat tattgaatta 120
 caactaataa gcaatctaaa aggggcacca ccaatgatgt gttggttgta ggaggccgct 180
 cggctctgtca aagcaagttg gacaaagggc aacaattggt gtagttgtaa gaggggtgcg 240
 gggttagccg caaactgctg gtagaaaggc agcaactggt gctgtgtcaa gaaggaagca 300
 cggtttgctg cagctagctg gctaaatggt agtagtattt gctgctgcaa ataagcagcg 360
 gggttcagtg cggccaattg gttaaattga agaagttggt gttgctgaga gtaggcagta 420
 gctagctggc tgaatggtaa tagttgttgc tgcaaataag cagcagggtt cagtgtaaac 480
 agttggttga atggaagaaa ttgttgttgc tgagagtagg gagaaagggt tgccagagct 540
 acttggttga tcaca 555

<210> 6321

<211> 485

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-G4

<400> 6321

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ccacacaaac tggacgctag catcttcatt catatcactg gcacgctggc caggccgcta 120
cttccccttg acgactggca ccgggcaaga tgcgtttgac agcacgtagt ttgtcacgct 180
tcccaggaga atcctttgga tcgggcccag gccccgacta cccatgacga gggaatcgat 240
cttgagatcc tcgacggggt cgcaaagctt ttccctgggg tcgccccagt acagcttcgc 300
caccaccttc agctgctttt ggcgcgctgc cgtgtcgatc gcgtcgagca cctcggcgtc 360
ggggcgacg ccgtagccct gcatcacctc gggctcccgg aactcggaga gggggatcag 420
cggggatccg gacttggccc aaagcgtggg cttgggtctcc tccgcgccgt ggtgcaggac 480
gtgga 485

<210> 6322

<211> 516

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-G5

<400> 6322

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ttgagtttgt caaagcaagt tggttgaatg gcagcaattg ttgcagttgt aagaggggtgc 180
cagcgttagg catagcgtgc aggtagaacg gcaacaactg ttgttggtgc aagaaggcag 240
cagggtcac atcagctagc tggctgaatg gtagtagttg ttgctgctgt aaataagcag 300
cagagttcaa tgctgctagt tggttgaatg gaagaaattg ctgggggtag gcagcaacta 360
gctggctgaa tggtaatgtg tgttgcaa atgcagcaga gttcaatgca gccagttggg 420
tgaatggaag aaactgatgt tgctgagagt atgcagcaag gtttgctagc acaagttggt 480
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<210> 6323

<211> 538

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-G7

<400> 6323

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gcctggggcga cggccttgga ggcgtgctgc ttccttggcg tggcgcagac gatggacacc 180
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cccgggcgcga cgcgggcggg cgccacctcc ggctccgaca ccacgccgtg ccgcttgagg 300
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cgctcagcct cctgaggcac gctgggcttc tggtcgggtg tgagctgcac ggccttcagg 480
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<210> 6324

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-G9

<400> 6324

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tttttttttt tttttttttt aaaaaggggg ggggggggga aaaaaaaaaa aaaaaaaaaa 180
aaaaaagcgg aaaaggggga aaaaaaaaaa aaaaaattaa aaaaaaaaaa aaaaaaaggg 240
aataaaaaaa gggggggggg gtaaaaaaaa gggggggggt aaaaaaaaaa aggggtgggg 300
ggggaaaaaa agggggaggg ggaaaaaggg ggagaaaaag ggggaaaaaa agaaggagg 359

<210> 6325

<211> 537

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-N6-H1

<400> 6325

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gctgctgggt ttgtcaaagc aagttggaca aagggcagca actgttgtag ttgtaagagg 180
gttgcggggt tagccacaaa ctgctggtag aacggaagca attgttggtg tttcaaaaag 240
gaagtggggc ttgtttagtc tagctggcca aatggtagta gtatttgctg ctggaaataa 300
gcagaggggt tcagtgcggc caattggtta aatggaagaa attgttgctg ctgagagtag 360
gcagtagcta gctggctgaa tggtagtagt tgttggtgtt gtaaataagc agcagggttc 420
agtgtagaca gttggttgaa tgggaagaaat tgttggtgct gagagtaggg agaaaggttt 480
gccagagcta cttggctgat cactggtagc acgagttgtt gcagctgttg tgcctg 537

<210> 6326

<211> 556

<212> DNA

<213> Zea mays

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<400> 6326

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ggtttgtcaa agcaagttgg ttgaatgggg ggaggggggg cagttgtaag agggtgccag 180
cgtagggcgc agcgtgcagg taaaacggca acaactgttg ttgtgtcaag aaggcaacag 240
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agttcaatgc tgccagttgg ttgaatggaa aaaattgctg ggggtaggca gcagctagct 360
gactgaatgg tagttgttgt tgcaaataag cagcagagtt caatgcagcc agttgggtga 420
atggaaaaaa ctgctgttgc tgaaagtagg cagcaagggt tcctagcaca agttgttgta 480
gttggtgtgc cttgatgttt tgtgccaaaca aatgcaccaa aggtaactgc tgtaataggg 540
ctgacgggtg ttggag 556

<210> 6327

<211> 553

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-H11

<400> 6327

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acctttacat atttgacaca tacagaacga aggggggaga tatacacata tgcatacaag 180
agcttcttta ttatttgaca cacgatagac tgtgacgagg aactaattaa tatatctatt 240
tgaaatcaag catcatgctg ttgaaatcaa agttgacgca ggtagacacc gatagcgctg 300
acgagcctgg ttcccgcgcg tccgtagaat cccacgacgc tgctgccgat gggcgcggtg 360
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aacctgagcg aggttagggg agtagcacct tcaaagtgtg cgtagcttcc tgacacctcc 480
ctgatgtgtt cgttgtcgcc aagatcgatc gttcgaacat tgccgccaag tccaccccat 540
cgcccagctg tgc 553

<210> 6328
<211> 541
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-064-Q1-N6-H2

<400> 6328

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caacaaaaca ctgtcctcaa gaagattaag agcatcaggg ctgtcaatat tgataccact 180
ttgcagtata ggaataagca tgtggtgaaga aagagggtgac tggaatccaa gcgaagaaac 240
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ccatatcatc tgaaaaaatt gtgatagctg acatgcaaatt ggaataacct tgtccccgc 360
atgttcaaga agaactgaaa tgaagttcaa cacttgcacc taaaagaaa taggtaaagc 420
cgagttgggt aggtggtctg agtagcactc ctcaggctct aggttcgact ttccgtggga 480

gcgaatttca gctgtggtta aaaaatcccc tcgtctgtcc aacgacaaag cacaggtcta 540

c 541

<210> 6329

<211> 530

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-H3

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gtgcaccgcg gcaccgagca ggtttacttc cgcgacatgc tgccgagcag gtttacttcc 180

gcgacatgca gattacagcg acatcgtgaa atcatcttaa gagctgtcca tcaggttctc 240

cattgaagtt gggtttacct tgccatcact attgttatct cgagggttag cttctgcttt 300

cctctcaact ccaaaagtga aattggcggg gcgatcattt gggttgaatc gctcgaatat 360

ggatggcatg gtcgtttggt tgaacacagg cgtttgcatg tcacctgctg gttttgtata 420

accaaattcca agagaagcaa atgattcagt gggaaccaag gtttgagtac tgggtccgaa 480

aagcttcaac tcatactcca aaagctcctt ctgagaagca tctgtcagtt 530

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<211> 537

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-H4

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aactataact cataagaaat ctaaaagagg gcaccaccaa tgatggggtg ttggtagaac 120

actgctaggt ttgtcaaagc aagttgggtg aatggcagca attgttgcag ttgtaagagg 180

gtgccagcgt taggcgcagc gtgctggtag aacggcaaca actgtgggtg tgtcaagaag 240

gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300

gcaggagagt tcaatgctgc cagttgggtg aatggaagaa attgttgggg gtaggcaaca 360

ggtagctggc tgaatggtag ttgttgttgt tgcaaataag aagcagagtt caatgcagct 420
 agttgggttga atggaagaaa ctgctgttgc tgagagtagg cagcaagggt tgctagcaca 480
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<210> 6331

<211> 554

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-H5

<400> 6331

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 tttttttttt tttttttttt tttttttttt tggggggggg gtttttttaa aaaggggggg 180
 ggttttttggg gaaaaacccc gggggggggg aaaagggggg gggggaaaaa attttttaaa 240
 gggaaaaccc ccaaatgggt tggggggggg ggggaaattt tggggggggg gggggggccc 300
 ccccccaaa gggggggggg gggggggggg gggaaaaaaa cccccccccc ctttgggggg 360
 ggggggggaa cccaaaaaaa ccagggggg gggggggggc ccccccccg gaaaaggggg 420
 aaaccccg gaaaaatggg gggggaaaag tggggggcca aaaccccaa aaaaaaaaaa 480
 aaaatggggg gggaaaaaac gggggaaatt tgggggggta aaaaacgggg ggggagaaaa 540
 aggccccccc gggg 554

<210> 6332

<211> 545

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-064-Q1-N6-H7

<400> 6332

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 agcacgtgtc gtgacattat gaagatacag tcttcgacct aaacaattcg actgcagaga 120
 gaaaatctat cactgaattt tacaacagca gcagccagca gcaggtcgac tgcgcccac 180
 acccatgtac ggtagctgca aagtccagtt ctcgggacca atggatgcag atgcaggcgc 240

ctaataatcc ggcagaggac gatttttttt ttccgtcggc gctgtccaag cccttctagg 300
aaagtgcaga ggtcgtggcg acagagaata cctaaacctg ctccagttgg tccggtggga 360
caagcggctg ctgctcgtea gctgcgcttg acgatctatc catgccacac agccccgggg 420
actttacagg cagcagagag gccttgttca gggcagcgaa agccttgttt cctgcaccgt 480
tgctccctaa acaaattgga tcacctcggc catgccagac accacactgg acattattca 540
tctct 545

<210> 6333

<211> 517

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-064-Q1-N6-H8

<400> 6333

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tgatggggtg ttggtagaac actgctgggt ttgtcaaagc aagttggttg aatggcagca 120
attgttgtag ttgtaagagg gtgccagcgt taggcgcaac gtgctggtag aacggcaaca 180
actgtgggtg tgtcaagaag gtagcagggc tcacaccagc tagctggctg aatggtagta 240
gttggtgctg ctgtaaataa gcaggagagt tcaatgctgc tagttggttg aatggaaaaa 300
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aagcagagtt caatgaacct agttggttga atggaaaaaa ctgctggtgc tgagagtagg 420
cagcaagggt tgctagcaca agttgttgta gttgttgctg cctgatgttt tgtgccaata 480
aatgcaccaa aggtaactgt tgtaataggg ctgatga 517

<210> 6334

<211> 597

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-A1

<400> 6334

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tccatagct tcccttcttc ccccatacct tccatcaatg atagcttcag tatgtgaaaa 180
cccagctctt cagccctata ggctccaaca agcaatcgca gcaagcaaca tacctttatc 240
acccttggtg tttcaacaat cgccagccct atctttggtg cagtcattgg tacaaccat 300
cagggcacag cagctgcagc aactcgtgct acctgtgatc aaccaagtag ctctggcaaa 360
cctttctccc tactctcagc aacaacaatt tcttccattc aaccaactgt ctacactgaa 420
ccctgctgct tatttgcagc aacaactatt accattcagc cagctagcta ctgcctactc 480
tcagcaacaa caacttcttc catttaacca attggccgca ctgaaccccg ctgcttattt 540
gcagcagcaa atactactac catttagcca gctagctgca gcaaaccgtg cttcctt 597

<210> 6335

<211> 597

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-A10

<400> 6335

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acaagttccc cgtcctcaac ctcgtagaga tgagcgcggt gcgggtagac ctgtaccagg 180
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gcagtgaag ggtccaggtc gccagcgaca acgggaccac ggtgttcgac gacgtgctcc 300
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ggaagaactc cgtcctgagc gacttgccgg ccgccgtcat cgccagctcg tatgccatct 480
ccatggagga agctgcagag ctcaagaacg gtaggaagca tgagctgggt gtgcttactc 540
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<210> 6336

<211> 607

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-065-Q1-K6-A11

<400> 6336

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ttatgctcct tgggtctttct gcaagtgttg ctaccganac ctttttccca caatgctcac 120
aagctcctat agcttccctt cttcccccat acctctcacc agcgggtgtct tcaatgtgtg 180
aagaccgggg ggttcattcc tacaggatcc aacaggcaat cgcaacaggc atcttaccat 240
tatcaccctt gttcctccaa caaccgtcag ccctattaca gcagttacct ttgggtccatt 300
tggtggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg 360
catactctca gcaacatcag tttcttccat tcaaccaact ggctgcattg aactctgctg 420
cttatttgca acaacaatta ccattcagcc agctagttgc tgcctacccc cagcaatttc 480
ttccattcaa ccaactagca gcattgaact ctgctgctta ttacagcag caacaactac 540
taccattcag ccagctagct gatgtgagcc ctgctgcctt cttgacacaa caacagttgt 600
tgccggtt 607

<210> 6337

<211> 596

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-A2

<400> 6337

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ccaagatatt ttccatcctt atgctccttg ctctttctgc atgtgttgct aacgcgacca 120
tttttctca atactcacia gctcctatag ctgcccttct tccccatac cttccatcaa 180
tgaccgcttc agtttgtgaa aaccagccc ttcaacccta caggctccaa caagcaatcg 240
caacaagcaa cttaccttta tcaccctgt tctttcaaca atcgccagcc ctatctttgg 300
tgcagtcatt ggtacaaacc atcagggcac aacagctgca acaactcgtg ctaccagtga 360
tcagccaagt agctctggca aacctttctc cctactctca gcaacaacaa tttcttccat 420
tcaaccaact gtctacactg aaccctgctg cttatttaca acaacaacaa ctactaccat 480

tcagccagct agctactgcc tactctcagc agcaacaatt tcttccattt aaccaattgg 540
ccgcactgaa cccctctgct tatttccagc agcaaatact actaccattt ggccag 596

<210> 6338

<211> 593

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-A4

<400> 6338

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gcccttgctc tcttggcgct cgctgcgagc gccgcctcca gtacaagcgg cggctgtggc 120
tgccagacac caccgtttca tctaccgcct ccgttctata tgccgcctcc gttctatctg 180
ccgccgcagc agcagccgca gccatggcaa taccctactc aaccaccgca gctaagcccg 240
tgccagcagt tcggatcctg cggcgctcggc agcgctcggca gcccgttcct gggccagtgc 300
gtcgagttcc tgaggcacca gtgcagcccg gcggcgacgc cctacggctc gccacagtgc 360
caggcgctgc agcagcagtg ctgccaccag atcaggcagg tggagccgct gcaccggtac 420
caggcgacat acggtgtggt cctgcagtcc ttcttgcagc agcagccgca gggcgagctc 480
gcggcgctga tggcggccca ggtagcgcag cagctgacgg cgatgtgcgg cctgcagctg 540
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<210> 6339

<211> 610

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-A5

<400> 6339

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agcaacatta tgggggttca aatatatcat tgggaagtat ggaaagtgcg gttgagagaa 120
ataaaagaag ccagttgcat gatttgcctg cagaagaagt tctggcgagg tcaagcattg 180
cagataatga gaataatgcc aatgatgcat ttttctctcc tctgtcgctt gctgctgttc 240

aggctgatgc tcctgccctt gatgataatg acttcattga ggccaaggac aaaaagaaca 300
 aaaagaggtc agcaaaaaaca aaagcttcta ctgtgaaggc tccatcacct gttgtttcct 360
 ttgatccacc agctatttcg atgccttctg aaaagggaaa gtctgccaag caagcacaac 420
 aggagttaga aatattgcca gtcacaccaa gtggtccatc gtttggagat tttgttcttt 480
 ggaaggggtga tcagactagc tctgtgcttg ctccagcatg gtctaatacgc tcagcaaagg 540
 tgcagaaacc tttgtctttg agagatatcc agagagaaca agaaaggag aaccgtatct 600
 atccagcaac 610

<210> 6340

<211> 598

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-A7

<400> 6340

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 aggctgtctt gcattatggg gaagactgga aaagggtgtct gaacatgtta gtagtcggtc 120
 agaaaaagat gtattgcaag atttataagg ctaccttttg gagaacagtt catgggacac 180
 aaggaggata gaatgaggtt tgagaatact gatgacaata ctgatgagcc tggagcaaatt 240
 gtctcaaac gactacgtct cactccacta gcagatgcaa gcaatccgat tatggctcag 300
 gttgcatttt fatcagccat tgtgggttcc gatgttgctt cagctgcagc gcaagcagct 360
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 attaagcaag aagaatcatc tcacacaaat gggctctcag ccaacgtgtt actgaaagag 480
 gcagctgcta atgcacgggc acaactcgag aaggaaagga acagcataga gcaatcttta 540
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<210> 6341

<211> 583

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-B1

<400> 6341

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 gatcgttgcc cttgctctcc tggcgctcgc tgcgagcgcc gcctccagta caagcggcgg 120
 ctgtggctgc cagacaccac cgtttcatct accgcctccg ttctatatgc cgcctccgtt 180
 ctatctgccg ccgcagcagc agccgcagcc atggcaatac cccactcaac caccgcagct 240
 aagcccgtgc cagcagttcg gatcctgcgg cgtcggcagc gtcggcagcc cgttcctggg 300
 ccagtgcgtc gagttcctga ggcaccagtg cagcccggcg gcgacgccct acggctcgcc 360
 acagtgccag gcgctgcagc agcagtgctg ccaccagatc aggcaggtgg agccgctgca 420
 ccggtaccag gcgacatacg gtgtggtcct gcagtccttc ctgcagcagc agccgcaggg 480
 cgagctcgcg gcgctgatgg cggcccaggt agcgcagcag ctgacggcga tgtgcggtct 540
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<210> 6342

<211> 592

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-B10

<400> 6342

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 caagatgtcg tggcaggcgt acgtcgatga ccacctgctg tgcgacatcg aaggccagca 120
 cctcagcgcc gccgccatcg tcggccacga cggcagcgtc tgggcacagt ccgagaactt 180
 ccccagatta aagcctgagg aggttgctgg gatgataaag gactttgatg aacctggaac 240
 tcttgcacca actggtcttt ttgttggagg tacgaagtac atggtgatcc aaggtgaacc 300
 tggagttgtc atccgaggaa agaagggcac tggaggcatt actatcaaga aaactggcat 360
 gtccttgatt atcggatatct atgatgagcc aatgactcca gggcaatgca atatggtggt 420
 ggagaggctc ggcgattacc tgatogaaca gggcttctaa gtttgtcata atgctatttt 480
 ggtcattggg cacttaagtt tgcacctcat ttggttctgt aatatgtggg cttgtgcatg 540
 tgcttggcgt attgcatgca gtgaataatt tatcttcgcg ttgggttggt ga 592

<210> 6343

<211> 608
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-065-Q1-K6-B11

 <400> 6343

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ttccctcaat gtcacaagc tcctatagct tcccttcttc cccataacct tccatcaatt  180
atggggggggg gatgtgaaaaa cccagctctt caaccatata ggcttcaaca agcaatcgca  240
gcaagcaaca tacctttatc gcccttggtg tttcaacaat caccagccct atctttggtg  300
cagtcattgg taaaaccat cagggcacia cagctgcagc aactcgtgct acctgtgatc  360
aaccaagtag ctctggcaaa ctttctccc tactctcagc aacaacaatt tcttccattc  420
aaccaactgt ctacactgaa cctgctgct tatttgagc aacaactatt accatttagc  480
cagctagcta ctgcctactc tcagcaacia caacttcttc catttaacca attggccgca  540
ctgaaccccg ctgcttattt gcagcagcaa atactactgc catttagcga gctagctgca  600
gcaagtcg                                     608
  
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<210> 6344
 <211> 115
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-065-Q1-K6-B12

 <400> 6344

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ccgaacaccc aacctcgtcc tctacgggt cgtgcgccac ttcccggcca tggtc       115
  
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<210> 6345
 <211> 604
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-065-Q1-K6-B2

<400> 6345

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tgaggactga gacccaagct aagatcagga ttggcgagag tgtccctgga tgtgatgagc 180
gagttgttac catatttagc acaagcagga aaactaatac catcgatggg gctgaagatg 240
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gtcttgggaa cgaagacagc gaagaaattt cacctcaagt tactgttcgc ttgcttgtgc 360
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gtgagactgg tgcacaaata cgtgtcctta gtaatgatca tatccccgca tgtgccatta 480
gtggagacga acttctccag atatctgggg acacggtagt tgtcagaaag gctcttcac 540
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tgac 604

<210> 6346

<211> 301

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-B4

<400> 6346

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aaccatacaa accatcgcaa cgcagcagca acaagcactg agccacctag ccgtgggtgaa 120
ccctatcgcc tacttgcaac aacagctgct tgcattcaac ccacttgctt tggcaaacgt 180
agctgcatac caacaacaac aacagttgca acagtttcta ccagcgctca gtcaactagc 240
catgggtgaac cctatcgnct acctacaaca gcaaacaact tctttcatct agcccgtctg 300
c 301

<210> 6347

<211> 603

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-B5

<400> 6347

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cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180
gcttcagtat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240
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tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac 360
caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420
caactgtcta cactgaaccc tgctgcttat ttgcagcaac aactattacc atttagccag 480
ctagctactg cctactctca gcaacaacaa cttcttccat ttaaccaatt ggccgcactg 540
aaccgcgtg cttatttgca gcagcaaata ctactgccat ttagcgagct agctgcagca 600
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<210> 6348

<211> 587

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-B7

<400> 6348

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acttcaatgg gttcgaaca tccagccgtg caagcctaca ggctacaact agcgcttgcg 240
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ctagccgtgg tgaaccctgt cacctacttg caacagcagc tgcttgcatc caaccactt 420
gctctggcga acgtagctgc ataccagcaa caacaacagc tgcaacagtt tatgccagt 480
ctcagtcaac tagccatggg gaaccctgcc gtctacctac aactactttc atctagcccc 540

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587

<210> 6349

<211> 604

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-B8

<400> 6349

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tcctatagct tcccttcttc ccccgtagct ctcaccagcg gtgtcttcgg tatgtgaaaa 180

cccaattctt caaccctaca ggatccaaca ggcaatcaca gctggcatct tacctttatc 240

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ggcacaaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta 360

ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta 420

tttgcaacaa caacaactac cattcagcca gctacctgct gcctaccccc agcaatttct 480

tccattcaac caactggcag cattgaactc tctgcttat ttacagcagc aacaactact 540

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gcgcg 604

<210> 6350

<211> 603

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-C1

<400> 6350

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tccctcaatg ctcaacaagct cctatagctt cccttcttcc cccatacctt ccatcaatga 180

tagcttcagt atgtgaaaac ccagctcttc agccctatag gctccaacaa gcaatcgagc 240

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 accaagtagc tctggcaaac ctttctccct actctcagca acaacaattt cttccattca 420
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 caa 603

<210> 6351
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-C11

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 gaggcagcaa cccatcgggt gaggtgccat cttttagatt acatatgaga tgtactcgat 360
 aatggtgccc tcattccggc atgtgtttcc tagaaataat caatatattg attgagattt 420
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<210> 6352
 <211> 604
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-C3

<400> 6352

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gcggctgctg cgtgccagcca cgcgcgcgcg ttcattctacc gccgcgcgtg catctgccac 180
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actacctac tcaaccgccc cggcctcagc ctcatcccca gccacacca tgcccgtgcc 360
aacagccgca tccaagcccg tgccagctgc agggaaacctg cggcgttggc agcaccgccga 420
tccctgggcca gtgcgtcgag tttctgaggc atcagtgcag cccgacggcg acgcctact 480
gctcgctca gtgccagtcg ttgcggcagc agtggtgcc gcagctcaag caggtggagc 540
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cgca 604

<210> 6353
<211> 610
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-065-Q1-K6-C4

<400> 6353

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gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtg cttcggtatg 180
tgaaaaccca attcttcaac cctacaggat ccaacaggca atcacagctg gcatcttacc 240
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tttattggca caaacatca gggcacaaca actacaaca cttgtgctag caaaccttgc 360
tgctactct cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaactctgc 420
ttcttatttg caacaacaac aactaccatt cagccagcta cctgctgcct acccccagca 480
atttcttcca ttcaaccaac tggcagcatt gaactctcct gcttatttac agcagcaaca 540
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gttggtgccg 610

<210> 6354

<211> 609
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-065-Q1-K6-C5

<400> 6354

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ccaagacatt atccctcctt gcgcttcttg ccctttttgt gaggcgcaaca aatgcgttca 120
ttattccaca atgctcactt gctccgagtg ccattattcc acagttcctc cctccagtta 180
cttcaatggg cttcgaacac ccagctgtgc aagcctatag gctacaacaa gcgcttgcg 240
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tacaaaccat cgcaacgcag cagcaacaag cactgagcca cctagccgtg gtgaacccta 360
tcgcctactt gcaacaacag ctgcttgcac ccaacccact tgctttggca aacgtagctg 420
cataccaaca acaacaacag ttgcaacagt ttctgccagc gctcagtc aa ctagccatgg 480
tgaaccctat cgcctaccta caacagcaac aacttctttc atctagcccg ctgcctatgg 540
gcaatgcacc tacatacctg caacaacagt tgttgcaaca acagttgctg caacaaattg 600
taccagctc 609

<210> 6355
<211> 609
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-065-Q1-K6-C6

<400> 6355

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cgcaatgctc gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtg 180
cttcggtatg tgaaaacca attcttcaac cctacaggat ccaacaggca atcgagctg 240
gcatcttacc tttatcacc ttgttctctc aacaatcatc agccctatta caacagttac 300
ctttggtgca tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag 360

caaaccttgc tgcctactct cagcaacagc agttttcttcc attcaaccaa ctaggttcat 420
 tgaactctgc ttcttatttg caacaacaac aactaccatt cagccagcta cctgctgcct 480
 acccccagca atttcttcca ttcaaccaac tagcagcatt gaactctcct gcttatttac 540
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 cacaaccac 609

<210> 6356
 <211> 618
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-C9

<400> 6356

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 cggcgggctgt ggctgccaga caccaccgtt tcactctaccg cctccgttct atatgccgcc 180
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 gcagctaagc ccgtgccagc agttcggatc ctgcggcgctc ggcagcgctc gcagcccgtt 300
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 ctgccacag tgccaggcgc tgcagcagca gtgctgccac cagatcaggc aggtggagcc 420
 gctgcaccgg taccaggcga catacgggtgt ggtcctgcag tccttctctgc agcagcagcc 480
 gcagggcgag ctgcggcgcc tgatggcggc ccaggtagcg cagcagctga cggcgatgtg 540
 cggctctgcag ctgcagcagc caggtccctg cccttgcaac gcagctgccg gcggtgtcta 600
 ctactgagga aactatgt 618

<210> 6357
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-D1

<400> 6357

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acttgctttg acaaaccag cagcctccta ccaacaacac atcattggtg gtgccctctt 240
ttagattgct tattagttgt aattcaataa taaagttttt tggatgatgt atgtggccaa 300
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<210> 6358

<211> 612

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-D10

<400> 6358

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cacaacaata cctctctccg gtgacagccg cgggatttca acaccaact atacaatcct 180
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agccatatgc cctattgcaa caaccatcct tagtgcattc gtatctccaa agaatcgcca 300
cacaacaact acaacaacag ttgctaccaa caatcaatca agtagttgca gcgaaccttg 360
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ctgtctactt gcaggcacia caactactac catttaacca acttgctggg agccctgatg 480
ccttcttact gcaacaacag cttctgccat tccatctgca agctgtggaa aacattgctt 540
ctttcttgcg acaacaacaa ttgttgccat ttaccacaa ggttgtggga aacattaatg 600
ccttcttgca ac 612

<210> 6359

<211> 175

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-D12

<400> 6359

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ccactcttcc tttcgccaag gaaaaaaggc ggctcgctgg gctagacttc gtgcagctgt 120
ggcagcctca gacatcttta ctctccctta tgagctatct ggctattgta gcttt 175

<210> 6360
<211> 565
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-D4

<400> 6360

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ccaactagca tgcattctgag acctctgcct tcttattcga taccaactac gcaacataga 120
agcacagtac tggtccaaca atgggagata acatgtttgg cctccttatg ctccttggtgta 180
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caaccctaca ggatccaaca ggcaatcgca acaagcaact tacctttatc acacctgttc 360
tttgaacaag cgacagccct atctctggcg cattcattgg ttcaaaccat cagggcagaa 420
cagtaacagc aactcctgct accagtgatc agccaagtag ctctggcaat actttcccc 480
tactatcaga aacatcaatt tcttccattc aaccaactgt ctatactgaa acctgctgct 540
tatttgcaag gacaacaagt gctac 565

<210> 6361
<211> 621
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-065-Q1-K6-D5

<400> 6361

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tggtctttct gcaagtgtg ctacggcgac cattttccca caatgctcac aagctcctat 120
agcttccctt cttccccgt acctctcacc aacgggtgtct tcggtatgtg aaaaccaat 180
tcttcaacc tacaggatcc aacaggcaat cgcagctggc atcttacctt tatcaccctt 240

gttcctccaa caatcatcag ccctattaca gcagttacct ttggtgcatt tattggcaca 300
 aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg cctactctca 360
 gcaacagcag tttcttccat tcaaccaact agctgcattg aactctgctt cttatttgca 420
 acaacaacaa ctaccattca gccagctatc tgctgcctac cccagcaat ttcttccatt 480
 caaccaactg acagcattga actctcctgc ttatttacag cagcaacaac tactaccatt 540
 cagccagcta gctgggtgta gccctgctac cttcttgaca caaccacagt tgttgccgtt 600
 ctaccagcac gctgcgccta a 621

<210> 6362

<211> 500

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-D8

<400> 6362

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 cagtttcttc cattcaacca actggctgca ttgaactctg ctgcttattt gcaacaacaa 120
 ctaccattca gtcagctagc tgctgcctac cccagcaat ttcttccatt caaccaactg 180
 gcagcattga actctgctgc ttatttacaa cagcaacagc taccaccatt cagccagcta 240
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 gctgcgccta acgctggcac cctcttacaa ctgcaacaat tgctgccatt caaccaactt 360
 gctttgacaa acccaacaac gttctaccaa caaccatca ttggcgggtgc cctcttttag 420
 attgcttatg agttatagtt caataatgaa gttttttgga tgatgtttgt ggcttcccag 480
 aaataagaaa gtacatttct 500

<210> 6363

<211> 505

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-D9

<400> 6363

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cggcaaggac aagtccagcg gcgtcatcca gcaggccact gagcaggtga agagcgcggc 120
 ggcggggcgcc aagggaacgcg gtgatgagca cgctggggat ggcgggggac gacaagcagg 180
 gggacgccaa caccaacacc aacaaggact cctctaccat caccagggat cactagacgc 240
 gtgtatgcac acgcacttgg tccgatcctg tcgtccgtga ccctgtttgc ttgttcgcga 300
 gtccagtatg ggtttgtgca tgttttcagt gtcatggttt ctttttctac gaatttggcg 360
 ttgtaagttc gattcgcagg tacgttgctg tgtttttttt ctgcgccatc aggtgtctgt 420
 aaacgagtcg ggcggggttg agtgtccttt gttgtgataa taaagttggg aaatcgtgat 480
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<210> 6364

<211> 609

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-E1

<400> 6364

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 gcagttacct ttggtgcatt tattggcaca aaacatcagg gcacaacaac tacaacaact 180
 tgtgctagca aaccttgctg cctactctca gcaacagcag tttcttccat tcaaccaact 240
 agctgcattg aactctgctt cttatttgca acaacaaca ctaccattca gccagctacc 300
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 cttcttgaca caaccacagt tgtggccgtt ctaccagcac gctgcgcta acgctggcac 480
 cctcttaca ctgcaacaat tgctgccatt caaccaactt gctttgacaa acctagcagt 540
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 caataataa 609

<210> 6365

<211> 614

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-065-Q1-K6-E10

<400> 6365

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tacagtacta actagtcaga agattaatga tgcgagctcc tcttgcaggt tgagggttga 120
attagcttgc tgcctgctag ttttcatgct gccattgcag gagtatgcat agagttgaag 180
aagcacatgg taacggcaag ctatgttgat gaatccatgt caaacttgag ccaagctgcc 240
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agttggaacc cagctggtgc actccggtca gggaaaaatc ctgcagtcta caaatttctt 480
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cgagagcttc cagcttttgc tctggaacac ttgccaaatc ggaattcctt gatatatggt 600
gacctttatg gtat 614

<210> 6366

<211> 595

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-E11

<400> 6366

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ccttatgctc cttggtcttt ctgcaagtgc tgctacggcg accattttcc cgcaatgctc 120
gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtg cttcggtatg 180
tgaaaaaccc aattcttcaa ccctacagga tccaacaggc aatcacagct ggcattctac 240
ctttatcacc cttgttctc caacaatcat cagccctatt acatcagtta cttttggtgc 300
atttattggc aaaaaacatc agggcacaa aactacaaca acttgtgcta gcaaaccttg 360
ctgcctactc tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg 420
cttcttattt gcaacaacaa caactaccat tcagccagct acctgctgcc taccctcagc 480

aattttcttcc attcaaccaa ctggcagcat tgaactctcc tgcttattta cagcagcaac 540
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<210> 6367

<211> 571

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-E2

<400> 6367

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caagnaaact gagcattcga agacaccgtt catcgcgaga gttttcatga gcatttcagg 120
ttcttcacag aacacgttcc ctgacatcga tttcaccgaa gaaggaactt ctgcagctgg 180
accaagcagt cctaagtcgc tccgatgtct ggcagagcca agagtgggtca ggaggattag 240
ggttgtcgcc gagaagactc cgatccagca cgtccttcag cccccgacga tcgcctcttt 300
gcttgccatt accatcgga tggttcctgt cctgaaagat tttgttttcg gggctgatgc 360
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gatgttgatt ctcgaggga tgctcgcgga agggccaaaa gacaacgcct tgggcatgag 480
gactatcatc ggtatcattg tggccaggct cttggttctc ccatgcattg gcatcgggtg 540
tgtgaccctg gcagacaggt tgcattctgct c 571

<210> 6368

<211> 622

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-E3

<400> 6368

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acaagctcct atagcttccc ttcttcccc gtacctctca ccagcggtgt cttcggtatg 180
tgaaaacca attcttcaac cctataggat ccaacaggca atcgagctg gcatcttacc 240

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 tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360
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 ttcttatttg caacaacaac aactaccatt cagccagcta tctgctgcct acccccagca 480
 atttcttcca ttcaaccaac tgacagcttt gaactctcct gcttatttac agcagcaaca 540
 actactacca ttcagccagc tagctggtgt gagccctgct accttcttga cacaaccaca 600
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<210> 6369

<211> 606

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-E4

<400> 6369

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 accaactagc tgcattgaac tctgcttctt attgagacca actagcaaca tagaaagcac 120
 aatagtgtac caacaatggc agctaaaata ttttgctcc ttatgctcct tgggtcttct 180
 gcaagtgtg ctacggcgac cattttcca caatgctcac aagctcctat agcttccctt 240
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 caatcgccag ccctatcttt ggtgcagtca ttggtacaaa ccatcagggc agaacagttg 420
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 cagcaacaac aatttcttcc attcaaccaa ctgtctatac tgaaccctgc tgcttatttg 540
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<210> 6370

<211> 603

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-E5

<400> 6370

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gtgagatctg ttccggatca ggcgtgagag ctccgggaatc aggggtttca cacatagctt 120
cgtcgatttg aatttgatgt actaatggag tctaaggggtg gcaaaaagtc tagcagtagt 180
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ggcgtgaaga agttccagtc tgctgcttac tccaactgag cgaagaagcc atcctgatat 300
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<210> 6371

<211> 603

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-E7

<400> 6371

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ttaaacaat aagcaccatt ccagccaaat ggtgatggaa cccagagggt agcacattgc 120
tttgcatatg gtcttgaggc tcgattggca ggcacaggga gtcagcttta ccgcaagctt 180
atagcaaac gtacaactgc ctgagacatg cttaaagctt accaccttta ccttgaggca 240
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catgcatcaa aggtgcatat cattgacttc ggcatttatt tcggcttcca atggccatgc 360
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gatgtacctc agccagggtt ccgacctact gagagaattg aagagactgg acaaaggctt 480
gcagaatatg ctgagaagtt gaagggtcct tttgagtatc aggggaatag atctaagtgg 540

gaaaccatcc gagttgagga tctcaaagtt ggcaaggacg aagttgtgat tgtaattgc 600
cta 603

<210> 6372

<211> 608

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-E8

<400> 6372

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ctcaatgctc acaagctcct atagcttccc ttcttccccc ataccttcca tcaattatag 180
cttcagtatg tgaaaaccca gctcttcaac catataggct tcaacaagca atcgagcaa 240
gcaacatacc tttatcgccc ttgttgtttc aacaatcacc agccctatct ttggtgcagt 300
cattggtaca aaccatcagg gcacaacagc tgcagcaact cgtgctacct gtgatcaacc 360
aagtagctct ggcaaacctt tctccctact ctcagcaaca acaatttctt ccattcaacc 420
aactgtctac actgaacctt gctgcttatt tgcagcaaca actattacca tttagccagc 480
tagctactgc ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga 540
accccgctgc ttatttgcag cagcaaatac tactgccatt tagcgagcta gctgcagcaa 600
gtcgtgct 608

<210> 6373

<211> 589

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-F1

<400> 6373

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cgtctcctcc tccgcagctt ccccgcgatc ccgaccatgg agggcgacgg taccaacctt 120
gatgcggcga tagagtcgct cctgaatgtc gagaagcaga tgaggctggc cggagatgtc 180
gccggcactc ggaaggccgt catcgacatc gtcgagctct gctacaaggc cggcgcgctg 240

aagacgctaa acgaccagat cgttctccta tctaagagga gaggccagct taagcaggct 300
attactgcta tggttcagaa agcaatggag tacattgatt tgacaccagg cattgacaca 360
agcatcgagc taataaaaaac actgagcagt gtctctgctg gcaaaatcta tgttgagata 420
gagagagcaa gattgatcaa aaggcttgca aaaattaaag aggagcaggg acaaatttac 480
gaggctgctg atttgatgca agaagttgct gttgaaacat ttggctctat ggcaaagacg 540
gagaaaattg ctttcattct tgagcaggtc cggctatgcc tggatcggc 589

<210> 6374

<211> 598

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-F10

<400> 6374

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aatgcgttca ttattccaca atgctcactt gctccgagtg ccattattcc acagttcctc 180
cctccaggta cttcaatggg cttcgaacac ccagctgtgc aagcctatag gctacaacaa 240
gcggttgagg cgagcgtctt agaacaacca attgcccatt tacaacaaca atccttgga 300
catctaacca tacaaccat cgcaacgcag cagcaacaag cactgagcca cctagccgtg 360
gtgaacccta tcgcctactt gcaacaacag ctgcttgcat ccaaccact tgctttggca 420
aacgtagctg cataccaaca acaacaacag ttgcaacagt ttctaccagc gctcagtaa 480
ctagccatgg tgaaccctat cgcctaccta caacagcaac aacttctttc atctagcccg 540
ctcgctatgg gcaatgcacc tacatacctg caacaacagt tggttgcaaca acagttgc 598

<210> 6375

<211> 615

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-F11

<400> 6375

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 cctccttatg ctcttggtc tttctgcaag tgctgctacg gcgaccattt tcccgcaatg 120
 ctcgcaagct cctatagctt cccttcttcc cccgtacctc tcaccagcgg tgtcttcggt 180
 atgtgaaaac ccaattcttc aacctacag gatccaacag gcaatcgag ctggcatctt 240
 acctttatca cccttggtcc tccaacaatc atcagcccta ttacaacagt tacctttggt 300
 gcattttattg gcacaaaaca tcagggcaca acaactacaa caacttggtc tagcaaacct 360
 tgctgectac tctcagcaac agcagtttct tccattcaac caactagggt cattgaactc 420
 tgcttcttat ttgcaacaac aacaactacc attcagccag ctacctgctg cctaccccca 480
 gcaatttctt ccattcaacc aactagcagc attgaactct cctgcttatt tacagcagca 540
 acaactacta ccattcagcc agctagctgg tgtgagccct gctaccttct tgacacaacc 600
 acagttgttg ccgtt 615

<210> 6376

<211> 581

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-F4

<400> 6376

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 ggttcacctg ccacctccgg tgcattctcc accgcccgtc cacctgccgc cgccggtcca 180
 cctgccaccg ccggtccatg tgccgccgcc ggttcatctg ccgccgccac catgccacta 240
 ccctaactcaa ccgccccggc ctcagcctca tccccagcca caccatgcc cgtgccaaca 300
 gccgcatcca agcccgtgcc agctgcaggg aacctgcggc gttggcagca ccccgatcct 360
 gggccagtgc gtcgagttcc tgaggcatca gtgcagcccg acggcgacgc cctactgctc 420
 gcctcagtgc cagtcgttgc ggagcagtg ttgccagcag ctccaggcagg tggagccgca 480
 gcaccggtac caggcgatct tcggcttggc cctccagtcc atcctgcagc agcagccgca 540
 aagcgggcag gtcgcggggc tgttggcggc gcagatagcg c 581

<210> 6377
 <211> 170
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-065-Q1-K6-F5

 <400> 6377

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 agcggcagac actttcgggc tgtgctgtta cggcgaccat gcatacgcca tgttcgttgg 120
 atctgagacc ttcggtgctt ctaccacagg ccataccact ggtgtcttcg 170

<210> 6378
 <211> 605
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-065-Q1-K6-F6

 <400> 6378

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 tatgtctcctt ggtctttctg caagtgtctgc tacggcgacc attttcccgcc aatgctcgca 120
 agctcctata gcttcccttc tttccccgta cctctcacca gcggtgtctt cggtatgtga 180
 aaacccaatt cttcaaccct acaggatcca acaggcaatc acagctggca tcttaccttt 240
 atcacccttg ttcttccaac aatcatcagc cctattacat cagttacctt tgggtgcattt 300
 attggcacaa aacatcaggg cacaacaact acaacaactt gtgctagcaa accttgctgc 360
 ctactctcag caacagcagt ttcttccatt caaccaacta gctgcattga actctgcttc 420
 ttatttgcaa caacaacaac taccattcag ccagctacct gctgcctacc cccagcaatt 480
 tcttccattc aaccaactgg cagcattgaa ctctcctgct tatttacagc agcaacaact 540
 actaccattc agccagctag ctggtgtgag ccctgctacc ttcttgatac aaccacagtt 600
 gttgc 605

<210> 6379
 <211> 525
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-F7

<400> 6379

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cctactctca gcaacaacaa tttcttccat tcaaccaact gtctacactg aaccctgctg 120
cttatttgca gcaacaacta ttaccattta gccagctagc tactgcctac tctcagcaac 180
aacaacttct tccatttaac caattggccg cactgaacct cgctgcttat ttgcagcagc 240
aaatactact gccatttagc gagctagctg cagcaagtcg tgcttccttc ttgacacagc 300
aacagttgct gcctttctac aagcagtttg cggctaacct cgcaaccctc ttacaactac 360
aacaattgtt gccctttgtc caacttgctt tgacaaacct agcagcctcc taccaacaac 420
acatcattgg tgggtgccctc ttttagattg attattagtt gtaattcaat aataaagttt 480
tttggatgat gtatgtggcc aaccagaaat aagaagttac atttt 525

<210> 6380

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-F8

<400> 6380

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tttagatttc ttatgagtta tagttcaata ataaagtttt ttatctgatg tttgtggctt 120
cccagaataa gaaagtcatt tctagattct t 151

<210> 6381

<211> 480

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-F9

<400> 6381

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ggaagaagat ccaccagag cagctcaatg ggcgtagcaa tgcagagggc ccccttactg 120
catgatgttt attcttgccg acaaatttgc ttctctattt gggttacattg gatccctatg 180

gctcagattc cttgccagag agaagcgtcc atggacagtc gtcgacgatg tggaagttcc 240
 gtttttttgtt gatgtgtttt gtcgccagtg aagcgtgcat gaataccaac cattctgctt 300
 tcccatgttc tcttgcttat ttgcatgtat aaatcaactg ttgggggtgtg tgtctgtgat 360
 cttgtaagct gtcacatctt ggcaccacgg cctgcgctgc gctgcactgc actgccttgt 420
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<210> 6382

<211> 605

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-G11

<400> 6382

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 tttctgcaag tgctgctacg gcgaccatct tcccgcgaatg ctgcgaagct cctatagctt 120
 ccctttcttc ccggtacctc tcaccagcgg tgtcttcggt atgtgaaaac ccattgggga 180
 gccctacagg atccaacagg caatcacagc tggcatctta cctttatcac ccttgcttct 240
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 cagggcacaa caactacaac aacttggtgt agcaaacctt gctgcctact ctcagcaaca 360
 gcagtttctt ccattcaacc aactagctgc attgaactct gcttcttatt tgcaacaaca 420
 acaactacca ttcagccagc tacctgctgc ctacccccag caatttcttc cattcaacca 480
 actggcagca ttgaactctc ctgcttattt acagcagcaa caactactac cattcagcca 540
 gctagctggg gtgagccctg ctaccttctt gatacaacca cagttgttgc cgttctacca 600
 gcacg 605

<210> 6383

<211> 618

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-G12

<400> 6383

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 caagatactt tccctcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat 120
 tttccctcaa tgctcacaag ctccatagac ttccttctt ccccatacc ttccatcaat 180
 gatagggtgca gtatgtgaaa acccagctct tcaaccctat aggctccaac aagcaatcgc 240
 agcaagcaac atacctttat cacccttggt tcaacaatcg ccagccctat ctttggtgca 300
 gtcattggta caaaccatca aggcacagca gctgcagcaa ctctgtctac ctgtgatcaa 360
 ccaagtagct ctggcaaacc tttctcccta ctatcagcaa caacaatttc ttccattcaa 420
 ccaactatct aactgaacc ctgctgctta tttgcagcaa caactattac cattcagcca 480
 gctagctact gctactctc atcaacaaca actttctcca tttaccaat tggccgcact 540
 gaacctcgct gcttatttgc agcagcaaat attactacca tttagccagc tagctgcagc 600
 aagccgtgct tcttctt 618

<210> 6384
 <211> 609
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-065-Q1-K6-G4
 <400> 6384

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 tattcacatg gttcaagtgg ggtcaattct gaagctagta caagtatcaa ggtcccaaag 120
 tttactggaa ctatacatgt aaaaccatat tgacactgga atggattgat ggaattaagc 180
 taactgatgc tgagcgcac agcaaagcca atttgaacag gaaaagaatg atagatgagg 240
 gtctctattg ctcatcgca caactgcttg aagaagggtt tttccatgca gacccccacc 300
 ctggtaatct agttgcaact gaagggtgat ctctagcata ttttgacttt ggtatgatgg 360
 gagatattcc gaggcactat cgtgtggggc ttatacaaat gcttgatcat tatgttaatc 420
 gggactcctt aggcttggcg aatgacttcc attcactagg atttgctcct gaggggaacag 480
 atttacttgc agttgcagat gcgttgcggt tttcctttgg tgatgtcagg aggcaatcaa 540
 atgatttcca gggcgtaatg aaccatttgt atgatgtgat gtatgaattt agtttctccc 600
 ttccccctg 609

<210> 6385
 <211> 494
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-065-Q1-K6-G5

 <400> 6385

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 acaacagcaa caactgattt catctagccc tctcgtgtg gttaatgcac ctacatacct 120
 gcaacaacag ttgctgcaac agattgtacc agctctgact cagctagctg tggcaaacc 180
 tgctgcctac ttgcaacagc tgettccatt caaccaactg actgtgtcga actctgctgc 240
 gtacctacaa cagcgacaac agttacttaa tccactagcg gtggctaacc cattggctgc 300
 tgccttccta cagcagcaac aattgctgcc atacaaccag ttctctttga tgaaccctgc 360
 cttgttgtgg cagcaacc 420
 ctcgataatg gtgcctcat agcggcatgt gtttctaga aataatcaat atattgattg 480
 agatttatct cgaa 494

<210> 6386
 <211> 611
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-065-Q1-K6-G7

 <400> 6386

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 catctgatcc accagttcaa ccccatgtgc caaaaaggat agaccaaagc atgttgagga 180
 tgacgattta ctcatctcag tgaataatgt taacatagcg ccaaatgagc atgccgaggt 240
 ggttcccaca acatttgctg ccatgactta tgaatcagat ttgcaagatg ttccaagaga 300
 aagcacctct gatgattcag ctccaaaagt ggtatgttgc caacaaaagc ttttggaaaa 360
 cacaggagat gattctggta aaatcgtaga ggtggttcaa gattcaggag atatattgtc 420

tgtgactcca catggtcttc agatggcaca caatctatac cccctgaca ataaattgca 480
 taaaccagat ttgaagaagg aagcttttgc tgatcaatct tccgctcttg ggaattgttt 540
 aaaagatttt gttattccag agcagtctta catctggcag ggtgggtttg aggtttcagg 600
 acatggaaac t 611

<210> 6387

<211> 610

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-G8

<400> 6387

tgcgaagcga acacattagc aacaacctaa caacaatggc taccaagatt tatccctcct 60
 tgcgcttctt gcgctttttg cgagcgcaac aaatgcgttc attattccac aatgctcact 120
 tgctccaagt tccattatta cacagttcct cccaccagtt acttcaatgg gcttcgaaca 180
 cccagctgtg caagcctata ggctacaaca agcaattgcy gcgagcgtct tacaacaacc 240
 aatttcccag ttgcaacaac aatccttggc acatctaaca atacaaacca tgcgaacgca 300
 acagcaacaa caattcctac cagcactgag ccacctagcc atggtgaacc ctgccgccta 360
 cttgcaacag cagttgcttg catcaaacc acttgctctg gcaaacgtag ttgcaaacca 420
 gccacaacaa cagctgcaac agtttctgcc agcgctcagt caactagcca tgggtgaacc 480
 tgccgcctac ctacaacagc aacaactgct ttcacttagc ccgctcgctg tggccaatgc 540
 acctacatac ctgcaacaac aattgttgca acagattgta ccagctctga ctcagctagt 600
 tgtggcaaac 610

<210> 6388

<211> 603

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-H1

<400> 6388

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 attacagcag ttacctttgg tgcatttggt ggacacaaaac atcaaggcac aacaactaca 120

acaacttgtg ctaggaaacc ttgctgcta ctctcagcaa cagcagtttc ttccattcaa 180
 ccaactggct gcattgaact ctgctgctta tttgcaacaa caactaccat tcagtcagct 240
 agctgctgcc taccgccagc aattttcttc attcaaccaa ctggcagcat tgaactctgc 300
 tgcttattta caacagcaac agctaccacc attcagccag ctagctgatg tgagccctgt 360
 tgcccttctg acacaacaac agttgttgcc gttctacctg cacgctgcgc ctaacgctgg 420
 caccctctta caactgcaac aattgctgcc attcaaccaa cttgctttga caaacccaac 480
 agcgttctac caacaacca tcattggtgg tgcctctctt tagattgctt atgagttata 540
 cttcaataat gaagtttttt ggatgatgtt tgtggcttcc cagaaataag aaggtacatt 600
 tct 603

<210> 6389

<211> 627

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-H10

<400> 6389

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 ggaagggttg ctcgctcacc cctacttcg ctgatcgat cgcgtgctgc ccgaggtaga 180
 ggtgaggagg aggcatagtt gtttgactta gcctgcctta gctatttctt gaagctaagg 240
 gaaataataa ttggtgttat ggcatttaga aatatggttt gcactcccca agtcattaat 300
 cttacatcag actcagagag agggcaagct caaggaggca atggtagtga gatattctgag 360
 caagggtcac aacatgctgt cagagttgta ggaaatgcaa tgaacattgg tctctctggt 420
 gtgcgaagtt actatgatat gagcataaat catcaccatc agtctgttca taaccacccc 480
 ccgaatttag gtgttgattc tggttttgtc ttcgcatcaa atatgtacaa tccctgcatg 540
 tcatcaacat caatgaacag acatgtttct catgctcaga gctttggatc agggaatcaa 600
 gtgttgacct caaaaccaag tcccagg 627

<210> 6390

<211> 605

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3061-065-Q1-K6-H11
 <400> 6390

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 atagcttccc ttcttcccc gtacctctca ccagcgggtgt cttcggtatg tggaaaaccc 180
 aatggggggg gcgtgacaga tccaacaggc aatcgcagct ggcattctac ctttatcacc 240
 cttgttcttc caacaatcat cagccctatt acagcagtta cttttggtgc atttattggc 300
 aaaaaacatc agggcacaac aactacaaca acttgtgcta gcaaaccttg ctgcctactc 360
 tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg cttcttattt 420
 gcaacaacaa caactacatc tcagccagct acctgttgcc taccaccaac aatttcttcc 480
 attcaaccaa ctggcagcat tgaactctcc tgcttattta cagcagcaac aactactacc 540
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 gttct 605

<210> 6391
 <211> 600
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-065-Q1-K6-H12

<400> 6391

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 atgcaacgca gcgtgcggcg gcgccacaca caatcacagc cccggccggt cggctcgcgc 180
 tacagcgatg tatcgctctc attctcattc cctgaccac tgaccacctc tctccccggc 240
 cggccgtctc tcccagcta aactgtggca ggcagctagc tgttacgagc tagctccgcg 300
 cgcgctaggc ggcgtcacgt acgtgctgtg atcaactgtc tagttctcta ctgcagcgcg 360
 acaccctgac ccgcgcgcgc gccgtggcca tggctgcgcg ccgcgcgcgc atccttctgg 420
 tcttgcccgt cgtcgccgtc ctgcgctcgt cgtccgcggc ggcggacggg tcgttcataa 480

cgtgggacga cctcagcacc ccgtccgccg ccgncgtgca tggcggcgtg aaagcggcca 540
gcgggggagg cgcccgcgag ctggacacga tctgtggtggg cgcagacggg acggggcact 600

<210> 6392

<211> 602

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-K6-H2

<400> 6392

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cctccttatg ctccttggtc tttctgcaag tgctgctacg gcgaccattt tcccgcaatg 120
ctcgcaagct cctatagctt ccctttcttc ccggtacctc tcaccagcgg tgtcttcggt 180
atgtgaaaac ccaattcttc aaccctacag gatccaacag gcaatcgcag ctggcatctt 240
acctttatca cccttggttc tccaacaatc atcagcccta ttacaacagt tacctttggt 300
gcattttattg gcacaaaaca tcagggcaca acaactacaa caacttggtc tagcaaact 360
tgctgcctac tctcagcaac agcagtttct tccattcaac caactagggt cattgaactc 420
tgcttcttat ttgcaacaac aacaactacc attcagccag ctacctgctg cctaccccca 480
gcaatttctt ccattcaacc aactagcagc attgaactct cctgcttatt tacagcagca 540
acaactacta ccattcagcc agctagctgg tgtgagccct gctaccttct tgacacaacc 600
ac 602

<210> 6393

<211> 602

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-K6-H3

<400> 6393

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tccttatgct ccttggtctt tctgcaagtg ctgctacggc aaccatttcc ccgcatagc 120
tcgcaagctc ctatagcttg ccttcttccc ccgtacctct caccagcggc gtcttcggtc 180

tgggtgaaaac ccaattcttc aacctacag gatccaacag gcaatcggag ctggcatctt 240
 acctttatca cccttgctcc tccaacaatc atcaggccta ttacaacagc tacctttggg 300
 gcatttattg gcacaaaaca tcatggcaca acaactacaa caacttgtgc tagcatacct 360
 tgctgcctac tctcagcaac agcagtttct tccattcaac caactagggtt cattgaactc 420
 tgcttcttat ttgcaacaac aacaactacc attcagccag ctacctgctg cctacccccca 480
 gcaatttctt ccattcaacc aactagcagc attgaactct cctgcttatt tacagcagca 540
 acaactacta ccattcagcc agctagctgg tgtgagccct gctaccttct tgacacaacc 600
 ac 602

<210> 6394
 <211> 518
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-065-Q1-K6-H4

 <400> 6394

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 cattcaacca actggcagca ttgaactctc ctgcttattt acagcagcaa caactactac 120
 cattcagcca gctagctggg gtgagccctg ctaccttctt gatacaacca cagttgttgc 180
 cgttctacca gcacgctgcg cctaacgctg gcacctctt acaactgcaa caattgctgc 240
 cattcaacca acttgctttg aaaaaccag cagcggttcta ccaacaaccc atcattgggtg 300
 gtgcccctctt ttagatttct tatgagttat agttcaataa taaagttttt tgtctgaaaa 360
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaattttaa naaaaaaaaa 420
 aaaaaaaaaa aaaaatttta ttttanaacc anaaaaaaaa aaaaaaaaaa aaaaaaaat 480
 ttttnaaaaa aaaaaaaaaa aaaggggggg ccggttta 518

<210> 6395
 <211> 597
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-065-Q1-K6-H5

 <400> 6395

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 gtgctcactt gtccttagtg ccattattcc acagttcttc ccaccagtta cttcaatggg 180
 cttcgaacat ccagccgtgc aagcctacag gctacaacta gcgcttgagg cgagcgctt 240
 acaacaacca attgccaat tgcaacaaca atccttggca catctaacc tacaaccat 300
 tgcaacgcaa caacaacaac aacaacagtt tctgccatca ctgagccacc tagccgtgg 360
 gaaccctgtc acctacttgc aacagcagct gcttgcattc aaccacttg ctctggcgaa 420
 cgtagctgca taccagcaac aacaacagct gcaacagttt atgccagtgc tcagtcaact 480
 agccatgggtg aaccctgccg tctacctaca actactttca tctagccgcg tcgcggtggg 540
 caatgcacct acgtacctac aacaacagtt gctgcaacaa attgtaccag ctctgac 597

<210> 6396
 <211> 601
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-065-Q1-K6-H8
 <400> 6396

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 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180
 gcttcaggat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240
 agcaacatac ctttategcc cttgttggtt caacaatcac cagccctatc tttggtgcag 300
 tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac 360
 caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420
 caactgtcta cactgaaccc tgctgcttat ttgcagcaac aactattacc atttagccag 480
 ctagctactg cctactctca gcaacaacaa cttcttccat ttaaccaatt ggccgcactg 540
 aaccccgctg cttatttgca gcagcaacaa ctactgccat ttagcgagct agctgcagca 600
 a 601

<210> 6397
 <211> 299
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-065-Q1-K6-H9
 <400> 6397

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 ggtgatcaaa ccagttcaca ttgaactatg tatagtcgta ggatgtacat attaagtgat 180
 ccagttcctg tgtactgtca ggagcatgaa cttttgtaga gtcttggtaa ttcctagggt 240
 ccatggggaa cctgccttgt tgcactcttt gattgtaatt atattccttt tcactatcc 299

<210> 6398
 <211> 497
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-065-Q1-N6-A1
 <400> 6398

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 aggccgctcg gtctgtcaaa gcaagttgga caaagggcaa caattgttgt agttgtaaga 180
 gggttgcggg gttagccgca aactgctggt aaaaaggcag caactgttgc tgtgtcaaaa 240
 aggaagcacg gtttgctgca gctagctggc taaatggtag tagtatttgc tgctgcaaata 300
 aagcagcggg gttcagtgcg gccaatgggt taaatggaaa aagttgttgt tgttgaaagt 360
 aggcagtaac tagctggctg aatggtaata gttgttgctg caaataagca gcagggttca 420
 gtgtaaacag ttggttgaat ggaaaaaatg ttgttgcttg aaataggag aaagtttgcc 480
 aaagctactt gggtgat 497

<210> 6399
 <211> 546
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-A10

<400> 6399

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ggggatcaaa aacttttaaag ctatgtagtt gaagaggggtg aatcaacacc cagtttaacc 180
atgagcaagc tttgtttaat tattacagggc tacgagtact tattcaggcg gatcactctg 240
gggggtgggccc tactgggtggg ggctgccagc ttgaccttgt tgggagctgc cactgccagc 300
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tccggggacg tggctgacca tgggggtcagg gtttgtttta aaggggatgt actggaagcc 480
ttcttccctgg gccttggggg cgacgaggta gccctggggg accatgagca gctgcccccc 540
acgggg 546

<210> 6400

<211> 550

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-A11

<400> 6400

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aaaaacttca ttattgaact ataactcata agcaatctaa aagaggcacc accaatgatg 120
ggttgttggg agaacactgt tgagtttgtc aagagggggg ggggtgaatg gcagcaattg 180
ttgcagttgt aagaggggtgc cagcgttagg catagcgtgc aggtagaacg gcaacaactg 240
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ttgctgctgt aaataagcag cagagttcaa tgctgctagt tgggtgaatg gaagaaattg 360
ctgggggtag gcagcaacta gctggctgaa tggttaattgt tgttgcaaat aagcagcaga 420
gttcaatgca gccagttggg tgaatggaag aaactgatgt tgctgagagt atgcagcaag 480
gtttgctagc acaagttggt gtagttgttg tgccctgatg ttttgtgcc acaaatggac 540
caaaggtaac 550

<210> 6401
<211> 558
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-A12

<400> 6401

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tggccacata catcatccaa aaactttatt attgaattac aactaataat caatctaaaa 120
gagggcacca ccaatgatgt gttgttgggg gggggggggg gggtttgtca aagcaagttg 180
gacaaagggc aacaattggt gtagttgtaa gagggttgcg gggttagccg caaactgctt 240
gtagaaagggc agcaactggt gctgtgtcaa gaaggaagca cgacttgctg cagctagctc 300
gctaaatggc agtagtattt gctgctgcaa ataagcagcg gggttcagtg cggccaattg 360
gttaaatgga agaagttggt gttgctgaga gtaggcagta gctagctggc taaatggtaa 420
tagttgttgc tgcaaataag cagcaggggt caatgtaaac agttggttga atggaagaaa 480
ttgttgttgc tgaaagtagg gagaaagggt tgccaaagct acttggttga tcacaggtag 540
cacgagttgc tgcagctg 558

<210> 6402
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-A2

<400> 6402

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ggaaaacaac aaaaaagcaa acaaaaaaag gggcccccga aagggggggg ggggggaaaa 120
gggggggggg gttgaaaaaa aaagggggaa aaaggggaaa aacgggggca gtggaaaaag 180
gggggggggg gaaaccaaaa acggggggga aaaaggaaac aattgggggt gttaaaaaaa 240
ggaagggggg gttggtggaa ctagggggcc aaagggggga aaaatttggg gggggaaaaa 300
aaaaaggggg gtaagggggg ccaatgggga aaaaggaaaa aaatttgctg ttgaaaggag 360
gcaaaacctc cctgggctaaa agggaaaaat tggggggggg gaaaaaaaaa agcgggggtc 420

aagggaac

429

<210> 6403

<211> 490

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-A3

<400> 6403

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gtgctggctgc agccgaacca tccgaccgat gacgtgaagg gcatcgccgc atcgatgctc 120
gacgggctga tgtacggctg cggcgacgcg atgatcgga tcaaccggc gaccgacagc 180
ctggctgcga tcgtgaagct gtcgcatg atcgacggct tccgagagc ctacggcgtg 240
ccgacgcagt cgtgtgtgct cagcacgtg accaacacga tcgctggcgt cgagaagggc 300
gctccggctc atctggtgtt ccagtcgacg gctggcaccg agaaggcgaa cgcgagcttg 360
catctcgctc gcgctgctc gcgagggcgc cgagggcgcg ttgtcgctga agcgcggcac 420
cgctggcaac aacctgatgt acttcgagac gggccagggc agcgcgcttt ccgcaacgc 480
gcatcacggc 490

<210> 6404

<211> 521

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-A4

<400> 6404

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actcatcgcc gctaaatgag taaactagcg agctaggtag ctatgcagcg gctccattac 120
attattacta cagtacatag tttcctcagt agtagacacc gccggcagct gcgttgcaag 180
ggcagggacc tggctgctgc agctgcaggc cgcacatcgc cgtcagctgc tgcgctacct 240
gggccgccat cagcgcgcgc agctcgccct gctgctgctg ctgcaggaag gactgcagga 300
ccacaccgta tgcgccttg taccggtgca gctgctccac ctgcctgacg ttgtggcagc 360
actgctgctg cagcgccttg cactgtggcg agccgtaggg cgtcgccgccc gggctgcact 420

ggtgcctcag gaactcgacg cactggccca ggaacgggct gccgacgctg ccgacgccgc 480
aggatccgaa ctgctggcac gggcttagct gcggtggttg c 521

<210> 6405

<211> 514

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-A5

<400> 6405

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tttcccaccc tcggcaaaac aggtagacca gaccgccatt ccgagcaccc ccagcttccc 180
tcgagccctg agacttcggt ggcattgtaac caaaggccaa actatgttat atacacggtg 240
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cgccgccatc cagatccgcg tctatgaccg tgctctctct agctgcagca gcaggggttg 420
cccgccctgc accgtcacca cggctgctgg gagcttggaa ggccatgtgg atcacatctg 480
ctgacaggaa ggcctttag ttgaggaaact tgtc 514

<210> 6406

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-A7

<400> 6406

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gggggggaaa aaaaaaaaaat ccccttggac ccaaggcaaa tggggggaaa aagggggaagg 120
gggcccccca ataaaaaaaa aaaccccccc caaaaaaaaa cgcgggccca aaaggaaaaa 180
aaaaaaaaag gtaaaaaccc ccaaaaccca aaggcgggaa aaaccgggc caaatcccaa 240
attgaaggaa aaacaccccc cccggggggg tccccgtaa aaaattaagg aaaaccgggg 300
ggtgggggtt taaaaacccc agcaccttgg ggggaaaaaa gggccccctt ttaaaagggg 360

aaaaaaccaa aaaggggccg aaaaaagaaa acccccacaaa aaaagggggg gggggcccct 420
 tttttaaaaa aaaacctcct ttaggaaa 448

<210> 6407
 <211> 72
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-A9

<400> 6407

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 ttttttttcg gc 72

<210> 6408
 <211> 543
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-065-Q1-N6-B1

<400> 6408

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 tttttttttt tttttttttt ttttttttcc aaaaaacctt ttccccaaaa aaaaatccct 120
 tcccattaaa gggggtaaaa aagggaatgg gggggggggg gccccggggg gggggggggac 180
 cccccggtac ccaaggccgg aaaagggggg aacaaggtaa ggccctaggg gggggggggg 240
 ggggggceca ttacaatata acaacgggaa aagggttccc aagggggaaa ccccgcgggg 300
 ggggggggtg gggggggggg gaccgggggg ggggaggggg aaaccgaaaa aggcgggggg 360
 gggggggggc acggggggcg gaaaaagggc cggggggggc ccctgggggg gggggggngg 420
 gaggggcggg aggaccccc cgaggggggg cggggcccgg gggggggggg cccccggccg 480
 gaccgggggg gagaaagggg ggggaagggc cggggcccgg gggggggccc gggggccccc 540
 ccc 543

<210> 6409
 <211> 526
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-B10

<400> 6409

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atgtacatta ctcaagtgaag cagcagctga gttcgagata tgaggagatg gcaagcataa 120
acccaattc aaatccgttc ccaacattgt caccaacca acgcgaagat aaattattca 180
ctgcatgcaa tacgccaagc acatgcacaa gccacatat tacagaacca aatgaggggc 240
aaacttaagt gcccaatgac caaaatagca ttatgacaaa cttagaagcc ctgttcgatc 300
aggtaatcgc cgagcctctc caccaccata ttgcattgcc ctggagtcac tggctcatca 360
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tttctctgga tgacaactcc aggttcacct tggatcacca tgtacttcgt acctccaaca 480
aaaagaccag ttggtgcaag agttccaggt tcatcaaagt ccttta 526

<210> 6410

<211> 541

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-N6-B11

<400> 6410

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taactttctta tttctggttg gccacatata tcatccaaaa actttattat tgaattacaa 120
ctaataatca atctaagggg ggggaggggg agatgatgtg ttgttggttag gaggtctgtg 180
ggtttgtcaa agcaagttag acaaagggca acaattgttg tagttgtaag agggttgcgg 240
ggttagccgc aaactgcttg tagaaaggca gcaactgttg ctgtgtcaag aaggaagcac 300
gacttgctgc agctagctcg cttaaaggca gtagtatattg ctgctgcaaa taagcagcgg 360
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ctagctggct aaatggtaat agttgttgct gcaaataagc agcaggggttc agttagaca 480
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c

541

<210> 6411
 <211> 553
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-065-Q1-N6-B12

 <400> 6411

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cactcaactc ancctcngcc cctaggggggt cggggaactg attccacctc ggccatgttt  180
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cgcacacctt caacaaaatc gtttctaate gacgacctca aggcaatgcg atattccaat  300
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tgagagaaat gcttctgtgt taaacaaaga gaaaatggag cgcctttctc aattcctgct  420
aaagcttcaa tggcccatte tgccactgca gcatcaccac ttccggctaca tttctttagc  480
tcttccacag attcagccac tgatttatca ggactgaaag aagaaatgat atatggcaaa  540
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<210> 6412
 <211> 533
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-B2

<400> 6412

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aagacaaagt aatgtagtga ggaatataag gtggtctatg gcatccacac gggtcctctt  180
aagcaaagct tccaggttgg gctctcttgg tcatctgggt tgggaaggga ctccaataag  240
caggetccaa acttcaatgt cttggctgct ttatcaagca atctaaatcc taataaccat  300
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tgtacccgct gtaagcccca tctctcttc caggtgcctg ggagccgcca taacttgcac  420
  
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agctgtcaga aggaatcgtg tcatccgatg tacgaaaacc acttgaatat agatagtgcc 480
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<210> 6413
 <211> 487
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-B4

<400> 6413

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 tgctgtagga aggcagcgac caatgggtta cccaccgcta ggggattaag taactgttgc 180
 cgctgttgta ggtccccagc aaagtccgac acagccagtt ggttgaatgg aagtagttgt 240
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 gggctaaata aaaaaagttg ttgctgttgt aggtaggcaa tagggttcac catggctagt 420
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 gccaaac 487

<210> 6414
 <211> 507
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-B5

<400> 6414

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 caaagggcaa caattgttgt agttgtaaga gggttgcggg gttagccgca aactgcttgt 180
 aaaaaggcag caactgttgc tgtgtcaaga aggaagcacg acttgctgca gctagctcgc 240
 taaatggcag tagtatttgc tgctgcaaat aagcagcggg gttcagtgcg gccaatgggt 300
 taaatggaaa aagttgttgt tgctgaaagt aggcagtagc tagctggcta aatggtaata 360

gttggttgctg caaataaaca gcagggttca atgtaaacag ttggttgaat ggaaaaaatt 420
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<210> 6415
 <211> 537
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-065-Q1-N6-B6
 <400> 6415

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 atgatgggtt gttggtagaa cactgctggg tttgtcaaag caagttggtc gaatggcagc 120
 aattgttgca gttgtaagag ggtgccaaac ttaggcgcag tgtgcaggta gaacggcaac 180
 aaatgttgct gtgtcaagaa ggcagcaggg ctcacagcag ctagctggct gaatggtagt 240
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 taggcagcaa ggtttgctag cacgagttgt tgtagttggt gtgccctgat gttttgtgcc 480
 aacaaatgca ccaaaggtaa ctgctgttgc tgagagtagg cagcaagggt tgctagc 537

<210> 6416
 <211> 293
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-065-Q1-N6-B7
 <400> 6416

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 ttcacaaaag agaactgggt gtatggcagc aattgttggt gctgctgcag gaaggtagcg 180
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 gcagagtttg acacagccag ttggttgaat ggaagcaact gttgtaagta ggc 293

<210> 6417
 <211> 538
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-065-Q1-N6-B8

 <400> 6417

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 ctgctgggtt tgtcaaagca agttgggtga atggcagcaa ttgttgcaat tgtaagaggg 180
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 gttgtttagt ttgttggtcc ctgatgtttt gtgccaataa atgcaccaa ggtaactg 538

<210> 6418
 <211> 503
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-065-Q1-N6-B9

 <400> 6418

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 taggaaaaca cacgtcggta tgagggcacc attatcgagt acatctcata tgtaatctaa 120
 aaaaggcacc tccaacgatg ggttgctgcc tggacaggac aggattcatc aaagagaact 180
 ggttgtagtg cagcaattgt tgctgctgta ggaaggcggc gaccaatggg ttagccacta 240
 ccaatggatt aagtaactgt tgcgctgtt gtaggtacgc agcagagttc gacagagtca 300
 gttgggtgaa tggaagcagc tgttgcaagt aggcaacagg gtttgccaca gctagttgag 360
 tcagagctgg tacaatctgt tgcaacaatt gttgttgca gtaggttagt gcattgccca 420
 caggagcgg gctagatgaa agcagtggtt gctgggtggc gtaggcggca ggggccacca 480

tgggtaggtg actgagcgtg ggc

503

<210> 6419

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-C1

<400> 6419

aaggaacacc cttggggaac caatatcaca ttaaaatcgg gaaaggaac tttttatttt 60
ggggggggca caaacatcat ccaaaaaatt tattatggaa ttacaactaa aaagcaatct 120
aaaagaaggg ccccccaag gaggggttg ggggagggg cgcctcggtc tgtcaaagca 180
agggggacaa agggcaacaa ttggtggagt tgaaaaagg gtgggggggt agcccaaac 240
tggtgggaaa aaggagaaaa ctggtgctgg gtaaaaaagg aagcacgggt tggtggaact 300
agctgggtaa aggggagaag tatttgggtg tgaaaaaagg caggggggtt aaggggggcc 360
aattggttaa aaggaaaaag ttgttggttg tgaaagtagg gaaaaactag ctgggtgaag 420
gggaaaagg ggtggtgaaa aaaaacagga gg 452

<210> 6420

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-N6-C11

<400> 6420

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aaacacatgc cggaatgagg gcaccattat cgagtacatc tcatatgtaa tctaaaagag 120
gcacctccaa cgatgggttg ctgcctcnac aagacgaggg gggatcaaag agaactggtt 180
glatggcagc aattgttgct gctgtaggaa ggcagcgacc aatgggttag cactgctag 240
tggattaagt aactgttgct gctgtgtag gtacgcagca gagttcgaca tagtcagttg 300
gttgaatgga agcagctggt gcaagtaggc agcagggtt gccacaacta gctgagtcag 360
agctggtaca atctgttgca acaattgttg ttgcaggtat gtaggtgcat tggccacagc 420

gagcgggcta gatgaaagca gttgttgc

448

<210> 6421

<211> 547

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-C12

<400> 6421

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tagaatctgg aaatgtaact tcttatttct ggttggccac atacatcatc caaaaacttt 120
attattgaat tacaactaat aatcaatcta aagggggggg ccaccaatga tgtgttgttg 180
gtaggaggct gctgggtttg tcaaagcaag ttggacaaag ggcaacaatt gttgtagttg 240
taagaggggt gcggggtag cgcgcaactg cttgtagaaa ggcagcaact gttgctgtgt 300
caagaaggaa gcacgacttg ctgcagctag ctgcgctaaat ggcagtagta tttgctgctg 360
caaataagca gcggggttca gtgcggccaa ttgggttaaag ggaagaagtt gttgttgctg 420
agagtaggca gtagctagct ggctaaatgg taatagttgt tgctgcaaat aagcagcagg 480
gttcagtgtg gacagttggt tgaatggaag aaattgttgt tgctgagagt agggagaaaag 540
gtttgcc 547

<210> 6422

<211> 515

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-C2

<400> 6422

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ataactcata agaaatctaa aagagggcac caccaatgat gggttgttgg tagaacgctg 120
ctggggttgt caaagcaagt tgggtgaatg gcagcaattg ttgcagttgt aagaggggtg 180
cagcgtagg cgcagcgtgc tggtagaacg gcaacaactg tggttgtatc aagaaggtag 240
cagggctcac accagctagc tggctgaatg gtagtagttg ttgctgctgt aaataagcag 300
gagagttcaa tgctgccagt tgggtgaatg gaagaaattg ctgggggtag gcagcaggtg 360

gctggctgaa tggtagttgt tggtgttgca aataagaagc agagttcaat gcagctagtt 420
 gggtgaatgg aagaaactgc tggtgctgag agtaggcagc aaggtttgct agcacaagtt 480
 gttgtagttg ttgtgccctg atgtttttgtg ccaat 515

<210> 6423
 <211> 525
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-065-Q1-N6-C3
 <400> 6423

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 attattactc aatcatcgcc gctaaatgac tcaactagct agctagccag cggctatact 120
 acagcacata gtttcttcag tgggggacac cgccggcagc agcgtagggg catggagtgc 180
 gctgctgcag gccgcacatc gccgtcagtt gctgcgctat ctgcgccgcc aacagccccg 240
 cgacctggcc gctttgcggc tgctgctgca ggatggactg gaggaccaag ccgaagatcg 300
 cctgggtaccg gtgctgcggc tccacctgcc tgagctgctg gcaacactgc tgccgcaacg 360
 actggcactg aggcgagcag tagggcgctc cgcgcgggct gcactgatgc ctcagaaact 420
 cgacgcactg gcccaggatc ggggtgctgc caacgccgca ggttccttgc agctggcacg 480
 ggcttggtat cggtgtgttg cacgggcatg ggtgtggctg gggat 525

<210> 6424
 <211> 523
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-065-Q1-N6-C4
 <400> 6424

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 attgaactat aactcataag aaactaaaag aggcaccacc aatgatgggt tggttggtaga 120
 acgctgctgg gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
 ggggtgccagc gttaggcgca gcgtgctggt agaacggcaa caactgtggt tgtatcaaga 240
 aggtagcagg gctcacacca gctagctggc tgaatggtag tagttgttgc tgctgtaaact 300

aagcaggaga gttcaatgct gccagttggt tgaatggaag aaattgctgg gggtaggcag 360
caggtagctg gctgaatggt agttgttgtt gttgcaaata agaagcagag ttcaatgcag 420
ctagttggtt gaatggaaga aactgctgtt gctgagagta ggcagcaagg tttgctagca 480
caagttgttg tagttgttgt gccctgatgt tttgtgccaa taa 523

<210> 6425

<211> 541

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-N6-C5

<400> 6425

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catgccgcta tgagggcacc attatcgagt acatctcata tgtaatctaa aagaggcacc 120
accaacgatg ggttgctgcc acgacaaggc aggggtcatc aaagagaact ggttgatatg 180
cagcaattgt tgctgctgta ggaaggcagc gaccaatggg ttagccaccg ctagtggatt 240
aagtaactgt tgctgctggt gtaggtacgc agcagagttc gacacagtca gttggttgaa 300
tggaagtagt tggtgcaagt aggcagcagg gtttgccaca gctagctgag taagagctgg 360
tacaatttgt tgcagcaact gngttgcaa caactgttgt tgcaggtatg taggtgcatt 420
gcccatacgc agcgggctag atgaaagaag ttgttgctgt tgtaggtagg cgataggggt 480
caccatggct agttgactga gcgctggcag aaactgttgc aactgttgtt gttgttggtg 540
t 541

<210> 6426

<211> 522

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-C6

<400> 6426

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cctttacctc ataaaaaatt taaaaaaggg cccaccaat gatgggttgt gggtaaacca 120
ctgttgggtt tgtaaaacca ggttggttga atggcaccaa tggttgcagt tgtaaaaggg 180

ggccagcggtt aggccccaccg tgctggtaaa acggcaccaa ctgtggttgt gtaaaaaagg 240
taccagggtt aacaccactt acctggttga atggtagtag ttgttggtgt tgtaaataac 300
caggaaagt tt caatgctgtt agttgggttaa atggaaaaaa ttgttggggg taggcaccag 360
gtacctggct aaatggtagt tggttggtgtt gcaaataaaa accaaagtgc aatgaacctt 420
tttgggttaa tggaaaaaac tggttggtgtt gaaaagtagg caccagggtt tgttacccca 480
agttgttgta attgttgggc cctgatgttt tgggccata aa 522

<210> 6427

<211> 514

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-C8

<400> 6427

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ctataactca taagaaatct aaaagagggc accaccaatg atgggttggt ggtagaatgc 120
tggttgggttt gtcaaagcaa gttggttgaa tggcagcaat tggtgcagtt gtaagagggt 180
gccagcggtta ggccgagcgt gctggtagaa cggcaacaat tgtggttggt tcaagaagggt 240
agcagggttc acaccagcta gctggctgaa tggtagtagt tggtgctgct gtaaataagc 300
aggagagttc aaagctgtca gttggttgaa tggaaaaaat tgctgggggt aggcagcaaa 360
tagctggctg aatggtagtt gttgttggtt caaataagaa gcagagttca atgcagctag 420
ttggttgaat ggaagaaact gttgttgctg agagtaggca gcaagggttg ctagcacaag 480
ttgttgtagt tggttggtcc tgatgttttg tgcc 514

<210> 6428

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-C9

<400> 6428

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tggtccaccc cgtccccag gggggggggg gaccccccg tccccaccgc cggtaaacgg 120

gggaaccagc tttgccccta aggggggggtg ggcagggggc ccattccatt attccccccg 180
 gccaaagtgc cccaaaaaga aaaccccccc gggagttggg ttgaaggggg ggggacccgg 240
 ttggtgaaat tgaaaacccc aaaaccccg c agggggggg cctcccgggg cccccaaaag 300
 cccccggggc cccccccggg ggtgttgctg caggaaggac cgcaggcccc ccccctttgg 360
 ccccgggacc cggggcaggg ggcccccccg cctgaacggg gggaaaaact ggtgctgaaa 420
 cccctggcac tgggggaagc cc 442

<210> 6429

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-D1

<400> 6429

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 ctgggtggcc acatacatca tccaaaaact ttattattga attacaacta ataagcaatc 120
 taaaagaggg caccaccaat gatgtgttgg tgggaggagg ctgctggggt tgtcaaagca 180
 agttggacaa agggcaacaa ttgttgtagt tgtaaaaggg ttgcgggggt agccgcaaac 240
 tgctggtaaa aaggcagcaa ctgttgctgt gtcaaaaagg aagcacgggt tgctgcagct 300
 agctggctaa atgggagtaa tatttgggtg tgcaataag cagggagggt tagtgggggc 360
 aat 363

<210> 6430

<211> 542

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-D10

<400> 6430

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 cagtataaat cataaaaaat ctagaagatg gcaccaccaa tgggtgggcga ttgcaataag 120
 gtggtaggat tcgtcaaagc atgttggcta aatggcagca attgttggtg ttgtaagaag 180
 gcaacaatgt ttgccacatt atgtgggtag aatggcagca attgttgctg ttgcaagaag 240

gcattaatgt ttcccacaac ctgtgggtaa aatggcaaca attgttggtg tcgcaagaaa 300
gaagcaatgt tttccacagc ttgcagatgg aatggcagaa gctgttggtg cagtaagaag 360
gcatcagggc tcccgcacaag ttgggttaaatt ggtagtagtt gttgtgcctg caagtagaca 420
gcaggggttca ccccgagctag ttgattgaat ggaagaaatt gttgttgctg gagataagca 480
gcaagggttcg ctgcaactac ttgattgatt gttggtagca actgttggtg tagttgttgt 540
gt 542

<210> 6431

<211> 554

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-D11

<400> 6431

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ctataactca taagaaatct aaaagagggc accaccaatg atgggttggt ggtagaacac 120
tgctagggtt gtcaaagcaa gttggttgaa tggcagcaat tggtgcagtt gtaagagggt 180
gccagcggtta ggcgagcgt gctggtagaa cggcaacaac tgtggttggt tcaagaaggt 240
agcagggctc acaccagcta gctggctgaa tggtagtagt tggtgctgct gtaaataagc 300
aggagagttc aatgctgcc a gttggttgaa tggaagaaat tggtgggggt aggcaacagg 360
tagctggctg aatggtagtt gttgttggtg caaataagaa gcagagttca atgcagctag 420
ttggttgaaat ggaagaaact gctgttgctg agagtaggca gcaagggttg ctagcacaag 480
ttgttgtagt tggttgccc tgatgttttg tgccaataaa tgcaccaaag gtaactgctg 540
taata'gggct gatg 554

<210> 6432

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-D12

<400> 6432

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tcgattaagc ataggggttg acattggggt ttacaaaaaa aaccgaaaa cacacgggat 120
 ttttcaacaa caaaaaacat ttttaagctt tccaaagcat tgatgggtcc attaaaaacg 180
 ggggcatcct tggaggaccc aaaaagggtt ttataaattg gcacggaaat ttcactttat 240
 tggggccaaa ccattgaaaa aaacattgaa ggggtggggct ggggaaacca aactaacttt 300
 gacagccctt ggatccactc aaaaccttgg gccaccgga gggaaaaatt ttttttcgag 360
 gaggaagggc cccaaaactt aaaaaaaacc cttgggggag cgaaccctc caaagggggg 420
 atgggggggg acagtctcat tggaaaa 447

<210> 6433

<211> 538

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-D2

<400> 6433

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 ccattatcga gtacatctca tatgtaatct aaaagaggca ccaccaacga tgggttgctg 120
 ccacgacaag gcagggttca tcaaagagaa ctggttgat ggcagcaatt gttgctgctg 180
 taggaaggca gcgaccaatg ggtagccac cgctagtga ttaagtaact gttgtcgctg 240
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 gtaggcagca gggtttgcca cagctagctg agtaagagct ggtacaattt gttgcagcaa 360
 ctgttggtgc aacaactgtt gttgcaggta tgtaggtgca ttgcccatag cgagcgggct 420
 agatgaaaga agttgttgct gttgtaggta ggcgataggg ttcaccatgg ctagttgact 480
 gagcgctggc agaaactgtt gcaactgttg ttgttggttg tatgcagcta cgtttgcc 538

<210> 6434

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-D3

<400> 6434

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gggaccccat tttttaaggg ggaaccccc cttggggtgg gggggggggg gggttttttg 120
 gggggggggg gggggccccc gcccccttg gggggggggg tggggggggg ggaaaaaagg 180
 cccccccctt ttgggggggg ggggggggacc ccaaaaaccc aagggggggg gggggggggc 240
 cccccgggt ttggggggga cccccgggt aaaatggggg gggaaagttt tgggggcaaa 300
 atcggaacaa aaaaaaaaa ctttgggggg ggaaaaccgg gggggttttg ggggggttaa 360
 aaccgggggg ggaaaaaggt tttcccaggg ggggg 395

<210> 6435

<211> 549

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-D5

<400> 6435

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 atgctgctgg gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
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 ctagttgggt gaatggaaga aactgctgtt gctgagagta ggcagcaagg tttgctagca 480
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 gctgtaata 549

<210> 6436

<211> 498

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-D8

<400> 6436

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actataactc ataagcaatc taaaagaggg caccgccaat gatgggttgt tggtagaacg 120
 ttgttgggtt tgtcaaagca agttgggttga atggcagcaa ttgttgcagt tgtaagaggg 180
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 ctagctgact gaatggtagt tgttgttgca aataagcagc agagttcaat gcagccagtt 420
 gggtgaatgg aagaaactgc tgttgctgag agtaggcagc aaggtttcct agcacaagtt 480
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<210> 6437

<211> 502

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-D9

<400> 6437

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 aacgtacctg cgaatcgaac ttacaacgcc aaattcgtag aaaaggaaac catgacactg 180
 aaaacatgca caaacccata ctggactcgc gaacaagcaa acagggtcac ggacgacagg 240
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 catcaccgcg tccttggcgc ccgcccgcgc gctcttcacc tgctcagtgg cctgctggat 420
 gacgccgctg gacttgtcct tgccggagac ggcggtgtcc ttggcgtact gcccggcctc 480
 ggcggccttc tgcttggctg cc 502

<210> 6438

<211> 546

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-E1

<400> 6438

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 tttttttttt tttttttttt ttttttagaa aaagggggtt ttttaatttg gggggggcaa 120
 aaaaaaaaaa aaaaaaaatt atttgggggg ggggggggaa aaaaaaaaaa aaaggggggc 180
 cccccaaggg gggggggggg gggaaaaaac gggggggggg gaaaaaaaag gggggggaag 240
 gggaaaaaag gggggggggg gaaaaggggg gcagggggag ggggaagggg gggggaaaaa 300
 gggaaaaaag gggggggggg aaaaaagggg ggaggggtaa aaaaaaaaaa atgggggaag 360
 gggaaaaggg gggggggggg taaaaaaagg ggggggaaaa aaggggggag ggggggaaaa 420
 ggaaaaaaa gggggggggg ggaaaaaggg gaggggggga aggggggggg gggggggggg 480
 gaaaaaaaag gagaatcaag ggagataagg gggggagggg aaaaaaagg tggtcccccc 540
 cacccc 546

<210> 6439
 <211> 479
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-065-Q1-N6-E10
 <400> 6439

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 tccaaaacgg ggttaaaaca aaaaaacatg ggccccgcta taaaaaacta tctttatctg 180
 gggatcaggg aactttcaag gctccacttt ttaaaccagc ttgatgcccg acgactccaa 240
 aaactccaat gctggaacgt aaatttccgg gtgcaaaggc ctgaacactc ctttcgtctg 300
 gaccttattt tttaacaaaa acaggggccc tattgctgct ggaatgccca cgggtcaacc 360
 catggcaggg ggggacctgc catttttaaac cttcccaaac tccaaaagcg tcgcttgggg 420
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<210> 6440
 <211> 542
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-065-Q1-N6-E11

<400> 6440

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ctgctggggtt tgtcaaagca agttgggtga atggcagcaa ttgttgagct tgtaagaggg 180
tgccagcggtt aggcgcagcg tgctggtaga acggcaacaa ctgtgggttgt atcaagaagg 240
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gttggttgaa tggaagaaac tgctgttgcct gagagtaggc agcaagggtt gctagcacia 480
gttggtttag ttgttggtgcc ctgatgtttt gtgccaataa atgcacaaaa ggtaactgat 540
gt 542

<210> 6441

<211> 541

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-E12

<400> 6441

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gctgacaagt atcctaaatt atgctgacaa gtatgctgga tccatcaggt catcaaatca 120
gtcagcgatc tggcagctga tggccatcgt ctacaagggt gctaggcagc tcttcggggc 180
caaccaagcg actgttgccc accgcgggt caccgtcact ctctccacg ctatcgtgcc 240
ggacagggcg gagcagcagc ccttgcaacc gcaccaaata gctttgacct gccggctgcg 300
acctcacgta tctcgtcgtc gcagttgccg ttgttacatt gctggcgctg gcggacggat 360
ggtcgggctc gctggtcgac cgaagattgt tcaacgcact cagggtccagg ttggggaaga 420
cggagcaccg gcaccgtggg cacttgacat tcagccgaag ccactggtcg atgcactcca 480
catgaaaatt gtgcgcgcat gggagcccac ggacctcatt gccaacatga aattcttcaa 540
g 541

<210> 6442
 <211> 477
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-E2

<400> 6442

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aacagaaca ccgatcatct tcatatattg accaacaggc aaccatggta ttactacta   60
tcaggctatc ccgggctact aaatztatcc agggaaggat ttgcatacaa caatagcctc  120
atgaaaatac ccatcaatat atcgccccga aagaacagac aaaaaccggc tggatctcct  180
ggtcacaaac aacacacaca actgaaactt aaataacccc cgaattataa acatttctga  240
ctgataggag cccatgcccc aaacccattc ttttagcatc ccacttgaaa gccacctata  300
tatgccaaaa ccggatggat ggatggatgg atggccattg gtttcatatg aaaaaaaca  360
acctgaagta tacaaccggg tagagggaaa aaaaaaaccc cccacaaata tgctgcaaaa  420
acaaaagggg ggatgcttcc ttgaccccaa aacctctgaa actggggaac gctccaa   477

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<210> 6443
 <211> 520
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-065-Q1-N6-E3

<400> 6443

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aagaactana aagtactttc ttattttctgg gaagccacaa actcagacaa aaactttatt   60
attgaactat aactcataag aaactaaaag aggcaccacc aatgatgggt tgttggtaga  120
atgctgttgg gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga  180
gggtgccagc gttaggcgca gctgctggt agaacggcaa caattgtggt tgtgtcaaga  240
aggtagcagg gctcacacca gctagctggc tgaatggtag tagttgttgc tgctgtaaatt  300
aagcaggaga gttcaaagct gtcagttggt tgaatggaag aaattgctgg gggtaggcag  360
cagatagctg gctgaatggt agttgttgtt gttgcaaata agaagcagag ttcaatgcag  420
ctagttgggt gaatggaaga aactgttgtt gctgagagta ggcagcaagg tttgctagca  480
caagttgttg tagttgttgt gccctgatgt tttgtgcaaa                    520

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<210> 6444
 <211> 535
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-065-Q1-N6-E4

<400> 6444

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gngaaaataa cttcttattt ctaggaggcc acatacatca gccaaaaaat tcattattga 60
attacaacta ataagcaatc taaaagaggg accgccaatg atgtgttggt ggtagaaggg 120
tgctggggtt gtcaaagcaa gttggacaaa gggcagcaac tggtgcagtt gtaagagggt 180
tgcgggggtt gccacaaact gctggtagaa cggaagcact tggtgttggt tcaagaagga 240
agcgggggctt gttgtagcta gctggccaaa tggtagtagt atttgctgct ggaaataagc 300
agagggggtt agtgcggcc aattggttaa tggaagaaat tggtgctgct gagagtaggc 360
agtagctagc tggctgaatg gtagtagttg ttgttgctgc aaataagcag cagggttcag 420
tatagacagt tgggtgaatg gaagaaattg ttgttgctga gagtaggggg aaagggttgc 480
cagagctact tggctgatca ctggtagcac gagttgctgc aactgttctg ccctg 535
  
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<210> 6445
 <211> 534
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-065-Q1-N6-E5

<400> 6445

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aacctcgaaa aaacaaactt attcataaac aaaatggggt cacagatatt tctccatagc 60
tacatgctca ttgtggtaga cgcagctgac cacctagagc tgcatactta cttattcaga 120
ctgatccagc atgtggcaac gtcggaagtt cacatgctta cagacgacaa attttcataa 180
caatagcttg gcttggctgc ttcacagaat aaccaaacga caaccacgaa attgcgacga 240
tataaaataa acaactcaga agcaaatcga cccagaagc ccgtttact catcaagcac 300
tcccgccttc tcttccatgg catccgcttc ctctcccag catagaagat tagccagttt 360
gtagtccttc ttcataggag gaggagcact ctccaagtgc tcgccgtcaa agcagtgga 420
aacagatttg ggcgaggtag caacagcgtc ttcagcagca cagaagctct ggtacacgag 480
  
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gagcccgccct ccaggcagct cctgctccac catgttggtg cagtcataga cctc 534

<210> 6446

<211> 513

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-E6

<400> 6446

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ctataactca taagaaatct aaaagagggc accaccaatg atgggttggt ggtagaacgc 120
tgctggggtt gtcaaagcaa gttggttgaa tggcagcaat tggtgcagtt gtaagaggg 180
gccagcggtta ggcgagcgt gctggtagaa cggcaacaac tgggggttgta tcaagaaggt 240
agcaggggtc acaccagcta gctggctgaa tggtagtagt tggtgctgct gtaaataagc 300
aggagagttc aatgctgcc a gttggttgaa tggaagaaat tgctgggggt aggcagcagg 360
tagctggctg aatggtagtt gttgttggtg caaataagaa gcagagttca atgcagctag 420
ttggttgaat ggaagaaact gctgttgctg agagtaggca gcaaggtttg ctagcacaag 480
ttgttgtagt tggttgcccc tgatgttttg tgc 513

<210> 6447

<211> 529

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-N6-E7

<400> 6447

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aagctcaaga tagtaggtag tttggctaac caattaacta gaagcagtga tctgggttatt 120
gctaatagga cgccaggccg atcatagaag taaatggaaa gaagaaaact acgaaattta 180
atagaagtaa tggtagaac accaaggtag agaggtctac acccagtcta tcagagtact 240
ggctggacag atgtgaagct agcaaagctc catgttgatc attatccgtc ttcaagccat 300
ttccttgatc agacaggttc acaggtcaag gtccacatgc tataacatag caggactgg 360

taattagctg ctaccatcaa tggaatagga aacgtaacat gtgagaccaa gaacctagtt 420
attcttaggc ttccaggtag atattgcata gattatcctt cctttccagc cttgcaggag 480
ccatccgctg tcttcatcta tgacaaagtc cttgtgataa atgtctttt 529

<210> 6448
<211> 533
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-E8

<400> 6448

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ctttattatt gaattacaac taataatcaa tctaaaagag gcaccaccaa tgatgtgttg 120
ttggtaggag gctgctgggt ttgtcaaagc aagttggaca aagggaaca attggtgtag 180
ttgtaagagg gttgcggggg tagccgcaaa ctgctttag aaaggcagca actggtgctg 240
tgtcaagaag gaagcacgac ttgctgcagc tagctcgcta aatggcagta gtatttgctg 300
ctgcaaataa gcagcggggg tcagtgcggc caattgggta aatggaagaa gttgttggtg 360
ctgagagtag gcagtagcta gctgggctaaa tggtaaatgt tgttgctgca aataagcagc 420
agggttcagt gtagacagtt gggtgaatgg aagaaattgt tgttgctgag agtagggaga 480
aaggtttgcc agagctactt gggtgatcac aggtagcacg agttgctgca gct 533

<210> 6449
<211> 523
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-E9

<400> 6449

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cagtataaat cataaaaaat ctagaagatg gcaccaccaa tgggtgggca ttgcaataag 120
gtggtaggat tcgtcaaagc atgttggcta aatggcagca attggtgttg ttgtaagaag 180
gcaacaatgt ttgccacatt atgtgggtag aatggcagca attggtgctg ttgcaagaag 240
gcattaatgt ttcccacaac ctgtgggtaa aatggcaaca attggtgttg tcgcaagaaa 300

gaagcaatgt tttccacagc ttgcagatgg aatggcagaa gctgttggtg cagtaagaag 360
gcatcagggc tcccagacaag ttggttaaat ggtagtagtt gttgtgcctg caagtagaca 420
gcagggttca cccagctag ttgattgaat ggaagaaatt gttgttgctg gagataagca 480
gcaaggttcg ctgcaactac ttgattgatt gttggtagca act 523

<210> 6450

<211> 535

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-F1

<400> 6450

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ggaatccgaa aaaattcagc gagtcaaagc aaatttgctg ggacactggc cgtgccaac 120
aacaacaaaa aacccccctt cctgttacgg taactcatga acagcacggg tttcaaaacc 180
taaaccaaaa gagttaaaact ttttaacgcc tcttgtggat catggtctct ttatgtatct 240
cggggcagct cttctcaacg aggtccagaa gcttctcaag gctcgtggcc catgagttca 300
gtgtgccatt gctgtcttgg gtctgccgga agctgacaac tcccatcggc ctgtcgatct 360
ttgccactag agatttcgag ttaaccatgt ctgagagatg cttctctgcc tcctgcaaag 420
tcaggcaaag aagatcagca agcctctcga gggtaaccct tgcatagtac ttggatacaa 480
ccaagatatt atgttcgata atcctcagcc tcaaattctt tgaagctttg gcacc 535

<210> 6451

<211> 535

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-F10

<400> 6451

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atcgagtaca tctcatatgt aatctaaaag aggcaccacc aacgatgggt tgctgccacg 120
acaaggcagg gttcatcaaa gagaactggg tgtatggcag caattgttgc tgctgtagga 180
aggcagcgac caatgggtta gccaccgcta gtggattaag taactgttgt cgctgttgta 240

ggtagcgagc agagttcgac acagtcagtt ggttgaatgg aagtagttgt tgcaagtagg 300
cagcaggggtt tgccacagct agctgagtaa gagctggtag aatttggtgc agcaactggt 360
gttgcaacaa ctgttggtgc aggtatgtag gtgcattgcc catagcgagc gggctagatg 420
aaagaagttg ttgctgttgt aggtaggcga taggggtcac catggctagt tgactgagcg 480
ctggtagaaa ctgttgcaac tggtgttgtt gttggtatgc agctacgttt gccaa 535

<210> 6452

<211> 541

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-N6-F11

<400> 6452

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attgaactat aactcataag aaactaaaag gggcaccacc aatgatgggt tgttggtaga 120
acactgctgg gtttggcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
gggtgccagc gttaggcgca acgtgctggt agaacggcaa caactgtggt tgtgtcaaga 240
aggtagcagg gctcacacca gctagctggc tgaatggtag tagttgttgc tgctgtaaatt 300
aagcaggaga gttcaatgct gctagttggt tgaatggaag aaattgctgg gggtaggcag 360
caggtagctg gctgaatggt agttgttgtt gttgcaaata agaagcagag ttcaatgaac 420
ctagttgggtt gaatggaaga aactgctgtt gctgagagta ggcagcaagg tttgctagca 480
caagttgttg tagttgttgt gccctgatgt tttgtgcaa taaatgcacc aaaggtaact 540
g 541

<210> 6453

<211> 562

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-N6-F12

<400> 6453

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aaacttttagc atagcgttga acttcctctt ctgtcttacc ctccatttca gaggatatac 120
 ttttaatatc attgcgacca tattttctcac atggggcaga nggggggggtt ngaagtctct 180
 ccttgtccat gatgcaaaac cctcttctaa taactgctcc ttctcttctt gtcctcttgc 240
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 ttgcatgagg gaccgcactt ccttttcgta caattcattt agcctttggg tattgaaaaa 360
 ctggaaatca tgcaagtgcg ggattcttgg aatccttggc tccttaggct tcgttggtgc 420
 accttggcga agcgcttgct taaagtaatc agactcagag tagtttctct tcctttctct 480
 tctaggtggc tcgatccagt tatcactaac gagtttcttg aaatcaacct tgttttcatc 540
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<210> 6454

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-F2

<400> 6454

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 gaggggggga tggcagaagt gggggggggg ggaaaagggg ggaagggagg ggaatagagg 120
 ggggggggaa gggaaaaaac tggttgaaaa agtaaaaggg gggcagggat aagaaaaagg 180
 agaaggaaaa aggggaccaa ctgttggggg gggaaaaaaa aaaaaggggc aaagctacaa 240
 aaaggggtga agggaaaaaa atgtgggggt agaaaaaaa aagggggccc aaaggggaat 300
 aagggggggc aaaaaaaaaa aaaaaggggg gggggccaaa aaaaggagag ggaaaaaaa 360
 aagttgttga aaaaaagcaa aaaagttag gggcccaagt tagaaaaaaa gggaagaaac 420
 ctggg 425

<210> 6455

<211> 543

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-F3

<400> 6455

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tcgagtacat ctcatatgta atctaaaaga tggcacctcc aacgatgggt tgctgcaagg 120
cagggttcat caaagagaaac tggttgtatg gcagcaattg ttgttgctgc tgcaggaagg 180
tagcgaccaa tgggttagcc actgccaatg gattaagtaa ctgttgctgc tgttgtaggt 240
acgcagcaga gtttgacaca gccagttgggt tgaatggaag caactgttgt aagtaggcag 300
cagggtttgc cacagctagc tgagtcagag ctggtacaat ttgttgtagc aactgttggt 360
gtaggtacgt aggtgcattg cccaccgga gggggctaga tgaaagtagt ttaggtaga 420
cggcaggggt caccatggct agttgactga gcactggcat aaactgttgc agctgttggt 480
gttgctggta tgcagctacg ttcgccagag caagtgggtt ggatgcaagc agctgctgtt 540
gca 543

<210> 6456

<211> 535

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-F4

<400> 6456

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actcaactag ctagctagcc agcggctata ctacagcaca tagtttcttc agtgggggac 180
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caggatggac tggaggacca agccgaagat cgcttggtac cggtgctgcg gctccacctg 360
octgagctgc tggcaacact gctgccgcaa cgactggcac tgaggcgagc agtagggcgt 420
cgccgtcggg ctgcactgat gcctcaggaa ctgcagcac tggcccagga tcggggtgct 480
gccaaacgcc caggttcctt gcagctggca cgggcttga tgccgctgtt ggcac 535

<210> 6457

<211> 505

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-F6

<400> 6457

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atgatgggtt gttggtaaaa ccctgctggg tttgtcaaag caagttggtt gaatggcagc 120
aattgttgca gttgtaaaag ggggccagcg ttaggccag cgtgctggta aaacggcaac 180
aactgggggtt gtatcaaaaa ggtagcaggg ctcacaccag ctagctggct gaatggtagt 240
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aattgctggg ggtaggcaac aggtacctgg ctgaatggta gttgttggtt ttgcaaataa 360
aaagcaaagt tcaatgcacc tagttgggtt aatggaaaaa actgctgttg ctgaaagtag 420
gcaacaaggt ttgctagcac aagttgttga agttgttggg ccctgatgtt ttgggccaat 480
aaatgcacca aaggtaactg atgta 505

<210> 6458

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-F7

<400> 6458

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gattcccacc aaaaatcaat ctaaaagggg gccccccca agatgggttg ttgggagggg 120
gccgctgggt ttgtcaaac aagggggcca aagggccaca attggtgtag ttgtaaaagg 180
gggggggggg tagcccaaaa ccgcttgtaa aaaggagca actgttgctg ggtcaaaaag 240
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acagcggggg tcaaggcggc ccattggtta aaaggaaaaa attttttttt cttaaaatag 360
gccaaaacta cccggctaaa agggaaaagg tgggtgtgca aaaaaacagc aggggtcaat 420
gtaaacagtt ggttaaaagg aaaaaattt ttttcttaa atagggaata c 471

<210> 6459

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-F8

<400> 6459

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ttattgaact ataactcata agaaatctaa aagagggcac caccaatgat gggttgttgg 120
tagaactctg ctgggtttgt caaag 145

<210> 6460

<211> 479

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-N6-F9

<400> 6460

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acaaggcagt gcagtgcagc gcagcgcagg ccgtgggtgcc agatgatgac agcttacaag 120
atcacagaca cacaccccaa cagttgattt atacatgcaa ataagcaaga gaacatggga 180
aagcagaatg gttgggtattc atgcacgctt cactggcgac aaaacacatc acaaaaaaac 240
ggaacttcca catcgtcgac gactgtccat ggacgcttct ctctggcaag gaatctgagc 300
catagggatc caatgtaacc aaatagagaa gcaaatttgt cggcaagaat aaacatcatg 360
cagtaagggg gccctctgca ttgctacgcc cattgagctg ctctgggtgg atcttcttcc 420
ccaacatctt cctcatgacc taccgactta attttcttgt cgctttcagt ggttttgggt 479

<210> 6461

<211> 594

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-065-Q1-N6-G11

<400> 6461

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ggttttctaa aaagtacttt cttatttctg ggaagccaca aactcagaca aaaactttat 120
tattgaacta taactcataa gaaactaaag ggggcaccac caatgatggg ttgttggttag 180

aacgctgctg ggtttggcag agaggggggg gggtgaatgg cagcaattgt tgcagttgta 240
 agaggggggcc agcgtttaggc gcagcgtgct ggtagaacgg caacaactgt gggtgtatca 300
 agaaggtagc agggctcaca ccagctagct ggctgaatgg tagtagttgt tgctgctgta 360
 aataagcagg agagttcaat gctgccagtt gggtgaatgg aagaaattgc tgggggtagg 420
 cagcaggtag ctggctgaat ggtagttggt gttgttgcaa ataagaagca gagttcaatg 480
 cagctagttg gttgaatgga agaaactgct gttgctgaga gtaggcagca aggtttgcta 540
 gcacaagttg ttgtagttgt tgtgccctga tgttttgtgc caataaatgc acca 594

<210> 6462

<211> 549

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-G12

<400> 6462

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 tcatccaaaa actttattat tgaattacaa ctaataagca atctaaaaga ggcaccacca 120
 atgatgtggt gttggtagga ggctgctggg ggggggaaag caagttggac aaagggcaac 180
 aattgttgta gttgtaagag gggtgcgggg ttagccgcaa actgctggta gaaaggcagc 240
 aactgttgct gtgtcaagaa ggaagcacgg cttgctgcag ctagctggct aaatggtagt 300
 aatatttgct gctgcaaata agcagcgagg ttcagtgcgg ccaattgggt aaatggaaga 360
 agttgttggt gatgagagta ggcagtagct agctggctga atggtaatag ttgttgctgc 420
 aaataagcag cagggttcag tgtagatagt tggttgaatg gaagaaattg ttgttgctga 480
 tagtagggag aaaggtttgc cagagctact tggttgatca caggtagcac gagttgctgc 540
 agctgctgt 549

<210> 6463

<211> 492

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-G2

<400> 6463

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 ccattatcga gtacatctca tatgtaaatct aaaaaaggca cctccaacga tgggttgctg 120
 cctcgacaag acagggttta tcaaaaagaa actggttgta tggcagcaat tggtgctgct 180
 gtaggaaggc agcgaccaat gggttagcca ctgctagggg attaagtaac tggtgctgct 240
 gttgtaggta cccagcaaag ttcgacataa tcagttgggtt gaatggaagc agctgttgca 300
 agtaggcagc agggtttgcc acaactagct gagtcaaagc tggtaacaatc tggtgcaaca 360
 attgttggtt caggatatgta ggtgcattgg ccacagcgag cgggctaaat gaaagcagtt 420
 gttgctggtt taggtaggcg gcagggttca ccatggctag ttgactgagc gctggcaaaa 480
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<210> 6464
 <211> 540
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-065-Q1-N6-G4

 <400> 6464

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 ttgtttgtcc aagtaattta gaaacttgac ataaatgcc gatgtttctg gaatcttgta 120
 actggaatgg ttagccaggg ccaaaaaaca tggggaacaa atttttgtga ttcaggtttc 180
 aacaaagtgc ggattagcat ggcgctccaa gcatctggag ccaaattgat agcttggcgg 240
 aacgattgca cagtattcac cagcctcctg atcatcttac ttctctctgg atttaggtcc 300
 cctatctttc ccactttcgc atatacatat gggaatgtcg cttcttgaag gaacacgtct 360
 gaagcattaa cgatgtcctg gacaaggaaa acccgaaccc gccatccttt cctcgataaa 420
 atgaaatcaa ataggtcttc tgtagctgca atcacagaat gcatatcaaa tgatctccac 480
 tcaggacttc cattggcggtt ctactggag tcagctcctg atgcgcttga agattctgat 540

<210> 6465
 <211> 498
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-065-Q1-N6-G5

<400> 6465

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accattatcg agtacatctc atatgtaatc taaaaaaggc acctccaacg atggggttgct 120
gccacaacaa ggcaggggttc atcaaaaaga actgggttgta tggcagcaat tggtgctgct 180
gtaggaaggc agcgaccaat ggggttagcca ccgctagggg attaagtaac tggtgctgct 240
gttgtaggta cccagcaaag ttcgacacag tcagttgggtt gaatggaagc agctgttgca 300
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actgttggtt caggatatgta ggtgcattaa ccacagcgag agggctagat gaaatcagtt 420
gttgctgttg taggtaggcg gcaggggttca ccatggctag ttgactgagc gctggtaaaa 480
actgttgcaa ttgtcgga 498

<210> 6466

<211> 511

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-G7

<400> 6466

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atctcaagaa actaacacca tatatctcat agatatggca gatagtaaca tcatcacacc 120
attatcacta acaacggcag cagatgcata taacagtgag agagaaaaaa agaaaaattt 180
cataatttaa cagctatacc atacttctac cctgtctaaa ctccatacag ctgcacaaaa 240
ctgtacactc gcaaacttaa aggggcatta agtgtttatg cctggcttct ccggcaggaa 300
ttgcttcactc tcttgatctg ctctcccacc gacaacacta gggagcccaa gagagagaga 360
cagtggttca tcatctacaa tatctgaacc agaaagatta cgcttcgttg ccaccatgga 420
tagggaaagt gagcataaaa tggaggagcc ctcatctgcc ttgatgatg ccttatttaa 480
gctagtacta gggtctgggg aatcttcgtc g 511

<210> 6467

<211> 533

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-G8

<400> 6467

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gggcaccatt atcgagtaca tctaatatgt aatctaaaaa aggcacctcc aacgatgggt 120
tgctgcctcg acaagaacag ggtttatcaa agagaactgg ttgtatggca gcaattgttg 180
ctgctgtagg aaggcagcga ccaatggggt agccactgct agtggattaa gtaactgttg 240
tcgctgttgt aggtaccag caaagttcga catagtcagt tggttgaatg gaagcagctg 300
ttgcaagtag gcagcagggt ttgccacaac tagctgagtc agagctggta caatctgttg 360
caacaattgt tgttgcagggt atgtagggtgc attggccaca gcgagcgggc taaatgaaa 420
cagttgttgc tgttgtaggt aggcggcagg gttcaccatg gctagttgac tgagcgctgg 480
caaaaactgt tgcagctgtt gttgtggctg gtttgcaact acgtttgcc aac 533

<210> 6468

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-G9

<400> 6468

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ccccgaaga aggggggggg gggaaaagg gggggggggg gggggggggg gggggggggg 120
gggggggggg ggggcagggg gggggggggg gcgggggagg aggggggggg acacaagaaa 180
ggccacaaaa gggggggggg gggggagggg ggggggaaac aagagaggga gaggtaaaag 240
ggtggatgta tggaaaaaat aaaaaaggga agggaggaaa tagggggcaa aatggtaggg 300
ggggaaaatg ctagggggag gcaaagaaaa aaggaggtaa atggttggga gggggggggg 360
aaaaaaccgg gggaattaag gccggaactt ggggggaaac cacatttgct taaaaccagg 420
aaaaa 425

<210> 6469

<211> 509

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-H1

<400> 6469

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gtataactca taagcaatct aaaagaggca ccaccaatga tgggttggtg gtagaacgct 120
gttgggtttg tcaaagcaag ttggttgaat ggcagcaatt gttgcagttg taagaggggtg 180
ccagcgttag gcgcagcgtg caggtagaac ggcaacaact gttgttggtg caagaaggca 240
acagggctca catcagctag ctggctgaat ggtggtagct gttgctgttg taaataagca 300
gcagagttca atgctgccag ttggttgaat ggaagaaatt gctgggggta ggcagcagct 360
agctgactga atggtagttg ttgttgcaaa taagcagcag agttcaatgc agccagttgg 420
ttgaatggaa gaaactgctg ttgctgagag taggcagcaa ggtttcctag cacaagttgt 480
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<210> 6470

<211> 537

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-H10

<400> 6470

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caaagtgaac aacaaatata ggtagcgcca ttgtctacca cttctttata tacaaaattg 120
agctgaacgt ttgtcaaagc aaataaccaa caggcttctc cattcccgtc cactgtcctt 180
gtctttctgtt ggcagacaat gctgtcgtct tgcagatggg gcacaagttc ttcaccatca 240
gccactgctt cagcactcc gcgtgggtacc tgtgaccgca gtcaaggggtg ccaacgcagt 300
ctctagcctg gtactcctcc tggcatatta tgcaagcatc attctctaga gaagatttag 360
atggctgata agacatgctc gatattcctg gaacatatag gctagtcctc aatttatcta 420
caatgtgact ttttgtcaga ccagtattga catctccaat ctgctcttct aatgctaaaa 480
gtcctcata cgtcatgctg tctatatcta gacgcatatc tctatgctca tctacag 537

<210> 6471

<211> 594

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-065-Q1-N6-H11
 <400> 6471

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 ttttaatcta aaaagtactt tcttatttct gggaagccac aaacatcaga caaaaacttt 120
 attattgaac tataactcat aagaaactaa agggggcacc accaatgatg gggtgttggt 180
 agaacactgc tagggggggg gggcaagttg gttgaatggc agcaattgtt gcagttgtaa 240
 gagggtgcca gcgttaggcg cagcgtgctg gtagaacggc aacaactgtg gttgtgtcaa 300
 gaaggtagca gggctcacac cagctagctg gctgaatggg agtagttgtt gctgctgtaa 360
 ataagcagga gagttcaatg ctgccagttg gttgaatgga agaaattgtt gggggtaggc 420
 aacaggtagc tggctgaatg gtagttgttg ttgttgcaaa taagaagcag agttcaatgc 480
 agctagttgg ttgaatggaa gaaactgctg ttgctgagag taggcagcaa ggtttgctag 540
 cacaagttgt tgtagttgtt gtgccctgat gttttgtgcc aataaatgca ccaa 594

<210> 6472
 <211> 544
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-065-Q1-N6-H12
 <400> 6472

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 acacgccggg cctgacgagg atcttgacgc ggcggctggt tccggcgggc accatgtcga 120
 ctgcgccctg cacggtgcgc gagtgcctcg tcccgtgect gcgccaccac gatcgtgtcc 180
 agctcgcggg cgctccccc gctggccgcc ttacgcgcgc cctgcacggc ggcggcggac 240
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 gcgcgcgcgc gggtcagggt gtccgcgtcg agtagagaac tagacagttg atcacagcac 420
 gtacgtgacg ccgcctagcg cgcgcggagc tagctcgtaa cagctagctg cctgccacag 480
 tttagctcgg gagagacggc cggccgggga gagaggtggt cagtggtcag gggaatgaga 540

atga

544

<210> 6473
<211> 531
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-H2

<400> 6473

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aactcataag aaactaaagg gggcaccacc aatgatgggt tgttggtaga aactgctgg 120
gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga ggggtgccagc 180
gttaggcgca acgtgctggt agaacggcaa caactgtggt tgtgtcaaga aggtagcagg 240
gctcacacca gctagctggc tgaatggtag tagttgttgc tgctgtaaata aagcaggaga 300
gttcaatgct gctagttggt tgaatggaag aaattgctgg gggtaggcag caggtagctg 360
gctgaatggt agttgttgtt gttgcaaata agaagcagag ttcaatgaac ctagtgtggt 420
gaatggaaga aactgctgtt gctgagagta ggcagcaagg tttgctagca caagttgttg 480
tagttgttgt gccctgatgt tttgtgcaa taaatgcacc aaaggtaact g 531

<210> 6474
<211> 539
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-H4

<400> 6474

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tttttttttt tttttttttt ttttcagggc gaggggtggt ttttggacct ttaccaata 180
aaaaacttaa agggggggccc ccccccagtg ggggtggggg aaaaccccc cgggggtttcc 240
aaaacccggg ggggttaaagg gccaaaattg ttcccgttta aaagggggcc cccctttggg 300
cccccggtcc tttaaaaacc caacccctt ggggttttaa aaaaaggggg cgggggttccc 360
cccccttct tgggttaaagg ggaaaatgtt ttgtttgtga aaaaacccgg ggaaattaaa 420

tcccccccca tgggttaaaag aaaaaaattt ttgggggtgg cccaagtgc cctgcctaaa 480
 ggggaatttt ttttgtagac cccccctgg ggtccccccc gaatttccgg cccgggtccc 539

<210> 6475
 <211> 543
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-H5

<400> 6475

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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt aaaaattttt 120
 ggggaaaatc ccaaccaaatt ttttggtttt tgggggggaa acaattgggg gttggggggc 180
 cccttggggg ggccccttca tttggaatca aaaagagggg gccccccaac cagggggtgg 240
 tgcagggggg ggggttaaaaa aaaaaaccgg gtttttggga aaaattggtg ttttttttgc 300
 cggaaggggc cccccaaggg ggtaccccc gcccaagggt taaaaaactg ggggcccttt 360
 tggggggccc ccccaaaatt tgccccaccc ccttggttta agggaaaaaa ctttttttaa 420
 gaggcaaaag ggttttcccc aatttgggtg gtaaaagggg ggccaatttg gggcaaaaac 480
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 tgg 543

<210> 6476
 <211> 528
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-H6

<400> 6476

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 ctgctggggt tgtcaaagca agttggttga atggcagcaa ttgttgcagt tgtaagaggg 180
 tgccagcggt agggcgcaacg tgctggtaga acggcaacaa ctgtggttgt gtcaagaagg 240
 tagcagggct cacaccagct agctggctga atggtagtag ttgttgctgc tgtaataaag 300

caggagagtt caatgctgct agttgggtga atggaagaaa ttgctggggg taggcagcag 360
 gtagctggct gaatggtagt tggtgttggt gcaaataaga agcagagttc aatgaacct 420
 gttgggtgaa tggaagaaac tgctgttgct gagagtaggc agcaaggttt gctagcacia 480
 gttgtttagt ttgttgtgcc ctgatgtttt gtgccaataa atgcacca 528

<210> 6477
 <211> 500
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-H7

<400> 6477

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 tctgtatggc tataggggcc aacctaacia agtacccttt ttggagacta taccatcctc 180
 atcatgaatc gggatcacac ctggaagggt gatttaaagc ttgttactcc caatcttagg 240
 aaaagtaatt atcgaacacc ctgggagacc aatatcacat tagaatctgg aatgtaact 300
 tcttatttct ggggtggccac atacatcatc caaaaaactt tattattgaa ttacaactaa 360
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 gccccaaact gcttgtaaaa 500

<210> 6478
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-065-Q1-N6-H9

<400> 6478

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 cacttaatat gtacatccta cgactatata tagttcaatg tgaactgggt tgatcaccag 180
 ccatatacag ggtgttgaac ttgaggaggc agcaggttca gatccatgca ctgctgttta 240

tcatagtcac gtgtaccagg aattgctccc gtcgc

275

<210> 6479

<211> 516

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-A1

<400> 6479

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aaccaactag ctgcattgaa ctctgcttct tatttgcaac aacaactact accattcagc 120
cagctagctg gtgtgagccc tgctaccttc ttgatacaac cacagttggt gccgttctac 180
cagcacgctg cgcctaacgc tggcaccctc ttacaactgc aacaattgct gccattcaac 240
caacttgctt tgacaaaacc agcagcgctt taccaacaac ccatcattgg tgggtgccctc 300
tttttagattt cttatgagtt atagttcaat aataaagttt tttgtctgat gtttgtggct 360
tcccagaaat aagaaagtac atttctagat tctaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaaa aaaaaaaaaa aaanaaaana accccc 516

<210> 6480

<211> 693

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-A10

<400> 6480

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ggcaaccagc atgcagtncn ttcttcccc tcgnnttccc gcggnaccag cgtggggagg 180
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gnngcgcacg ntngttcaa ggcnnncgac gtannccggg gnnctgaaga aaaggaggna 300
nnggtcaagn nggtggagggg tcgaggggac ggnncaacgt nnccttcaga aatcaagcgg 360

cgaagcgcca acaagggnag cagggnnagg agaagaaacg gacnaccctg gcnnaccgcg 420
 tggnnagcgg nnnagcagcg ggaaggggtt ccnttgcgca gnngttccga cctgggccccg 480
 agnaaccgcc aagnaacggn agcagnatnn cacggccccg ccatggnaga aaacggcggn 540
 ntgcttacca gnntcactgn tnngccgaag ggagggggac gccaaagnaag nncctgaagt 600
 gnannagtcc attcagaatn nctccggcta gaacnnctcg gtnnctgcgg gtcgtcgtac 660
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<210> 6481

<211> 599

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-A11

<400> 6481

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 tattattcca caatgctcac aacaatacct ctctccggtg acagccgga gatttgaata 180
 cccaactata caatcctaca ggctacaaga ggccatcgca gcaagcatct tacggtcggt 240
 agcattgacc gtccaacaac catatgccct attgcaacaa ccctccttaa tgaatctata 300
 tctccaaaga atcgcagcac aacaactaca acaacagttg cttccaacaa tcaatcaagt 360
 agttgcagcg aaccttgctg cttacctcca gcaacaacaa tttcttccat tcaatcaact 420
 agctgggggtg aaccctgctg cttacttgca ggcacaacag ctactaccat tcaaccaact 480
 tgtcaggagc cctgctgcct tcttactgca gcaacagttg cttccattcc atctacaagt 540
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<210> 6482

<211> 625

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-A12

<400> 6482

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ttgcctccga cgcaattgga caagtgcaag atgaaagatg catttatctc agatgggtgc 120
 ttactgagag aatgcaacat cgagcattct gtgattggag tctgctcacg tgtcagctgt 180
 gggggggaac tcaaggactc cgtgatgatg ggagcggaca cctatgaaac tgaagaagaa 240
 gcttcaaagc tactgttagc tgggaaggtc ccagttggaa taggaaggaa cacaagata 300
 aggaactgta tcattgacat gaatgctagg attgggaaga acgtggtgat cacaacagt 360
 aagggcaccc aagaggctga tcacccggaa gaagggtact acataaggtc tggaatcgtg 420
 gtgatcttga agaatgcaac catcaacgat gggctctgtca tatagatcgg ctgcgtttgc 480
 gtctacaaaa caagaacctc caatgggtatt gcacgatgg atcgtgtaac cttggtatgg 540
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<210> 6483
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-066-Q1-K6-A2
 <400> 6483

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 tcaaaccatt ttcacgcat ccactcatct atttctacct gcactgattc ctaatatctt 180
 tgggtgaggcc tgtcccttc tttcaacatc aatttcttgc atccttccca ctttctcttt 240
 caaacatatt ttcttaccac caacaacctc tcttacaaca ctttctacct nctctcattc 300
 atacaatcct tatcaacct atctcctacc ttcacatcat caacttattt catctatccc 360
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<210> 6484
 <211> 624
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-066-Q1-K6-A3

<400> 6484

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ccacaatgct cacttgctcc aagttccatt attacacagt tcttcccacc agttacttca 180
atgggcttcg aacacccagc tgtgcaagcc tataggctac aacaagcaat tgcggcgagc 240
gtcttacaac aaccaatttc ccagttgcaa caacaatcct tggcacatct aacaatacaa 300
accatcgcaa cgcaacagca acaacaattc ctaccagcac tgagccacct agccatgggtg 360
aaccctgccg cctacttgca acagcagttg cttgcatcaa acccacttgc tctggcaaac 420
gtagttgcaa accagccaca acaacagctg caacagtttc tgccagcgct cagtcaacta 480
gccatgggtga accctgccgc ctacctacaa cagcaacaac tgctttcatc tagcccgctc 540
gctgtggcca atgcacctac atacctgcaa caacaattgt tgcaacagat tgtaccagct 600
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<210> 6485

<211> 601

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-A5

<400> 6485

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cagactttta gatttgccctt tatcaacagc gttttataag cttatacttg gacaggaact 120
tgatttgttt gacatagtgt catttgattc tgagtttggg aagacattgc aagaactgca 180
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tgcagatttg tgtttccatg gcgcttctat tgaagatttg tgtttagatt ttactcttcc 300
aggttatcct gattatgtgc ttaaagaggg tgaaggaggc acaattgtta atatttataa 360
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ggttgaggca tttagatcag ggtttaatca ggtgtttgac atgtcatccc tccacatatt 480
ttcacctcaa gaacttgact atctaatatg tggtcgacaa gaaatttggg agtcggaatc 540

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<210> 6486

<211> 605

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-A6

<400> 6486

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gacttaacta cacaccaag caattagttc atgcccttat taaggtgggc cactggccac 180
cactacacta cattacacta ggacaggggg ggagctacac atacttggcc atatcacata 240
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gccctgcaag ccaaactttt aaaggcgcgg ccaccttctc cttggggagc ggggcaatct 360
cctcgccttc aaccctggc tcgccccggg ggaccccgag ggtgaacaac acgttctccc 420
aatttttggc aaggcccttc caagaaaaaa cctggataat gcaattcctc accatttcct 480
cgtaccccg ggtgccgacc accttgatgg cgccctgcaa tggggggggc acctttttga 540
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tgccct 605

<210> 6487

<211> 589

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-B1

<400> 6487

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cccgattcaa ggtggcgccg cgccccggca cgttcctgcc gttcggggagc ggcgtgcacg 180
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ccacctacag gtgggaggtg gtgggggtcga ggcacgacgt gacctacagc ccggttcccgg 300
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 gccgtgcgcc gccgctggac attggaggac ctgcaggcgc tagctatagc tagctcctcg 420
 gacaaaaagg caatgcatgc acccaagcac ccaggagata gataggcccg gcaggcggca 480
 ggggacgacg acacacacat ccagacatcg tccagtcacg tggcagtagc aagctagtag 540
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<210> 6488

<211> 526

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-B11

<400> 6488

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 tgctcacaag ctctatagc ttcccttctt ccccatacc ttccatcaat tatagcttgg 180
 gtggggggga gaccanctc ttcaaccata taggcttcaa caagcaatcg cagcaagcaa 240
 cataccttta tcgcccttgt tgtttcaaca atcaccagcc ctatctttgg tgcagtcatt 300
 ggtacaaacc atcagggcac aacagctgca gcaactcgtg ctacctgtga tcaaccaagt 360
 agctctggca aacctttctc cctactctca gcaacaacaa tttcttccat tcaaccaact 420
 gtctacactg aaccctgctg cttatttgca gcaacaacta ttaccattta gccagctagc 480
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<210> 6489

<211> 562

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-B12

<400> 6489

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cccaactata caatcctggg ggggggggga ggccctccaa gcaagcatct tacggtcatt 180
 agcattaacc ctccaacaac cctatgctct attgcaacag ccaccccttag tgcattctgta 240
 tctccaaaga atcgcggcac aacaactaca acaacagttg ctaccaacaa tcaatcaagt 300
 agttgcagcg aaccttgctg cttacctcca gcaacaacag tttcttccat tcaatcaact 360
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 tgtcgggagc ccttatgcct tcttactgca acaacagctt ctgccattcc atctgcaagc 480
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<210> 6490
 <211> 550
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-066-Q1-K6-B2
 <400> 6490

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 acctagccgt ggtgaaccct gtcacctact tgcaacagca gctgcttgca tccaaccac 180
 ttgctctggc gaacgtagct gcataccagc aacaacaaca gctgcaacag tttatgccag 240
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 cgctcgcggt gggcaatgca cctacgtacc tacaacaaca gttgctgcaa caaattgtac 360
 cagctctgac tcagctagct gtggcaaacc ctgctgcta cttacaacag ttgcttccat 420
 tcaaccaact gggctgtgtc aaactctgct gcgtacctac aacagcgaca acagttactt 480
 aatccattgg cagtggctaa cccaatggtc gctaccttcc tgcagcagca acaacaattg 540
 ctgccatata 550

<210> 6491
 <211> 602
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-B3

<400> 6491

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ctttatcacc cttgttgttt caacaatcgc cagccctatc tttggtgcag tcattggtac 120
aaaccatcag ggcacagcag ctgcagcaac tegtgtacc tgtgatcaac caagtagctc 180
tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac caactgtcta 240
cactgaaccc tgctgcttat ttgcagcaac aactattacc attcagccag ctagctactg 300
gctactctca gcaacaacaa cttcttccat ttaaccaatt ggccgactg aaccccgctg 360
cttatttgca gcagcaaata ctactacat ttagccagct agctgcagca aaccgtgctt 420
ccttcttgac acagcaacag ttgctgcctt tctaccagca gtttgcggt aaccccgcaa 480
ccctcttaca actacaacaa ttgttgccct ttgtccaact tgctttgaca gaccgagcgg 540
cctcctacca acaacacatc attgggtggg gccctctttt agattgctta ttagttgtaa 600
tt 602

<210> 6492

<211> 598

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-B4

<400> 6492

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tgccggtggg aggaacaaga agaccaagcg cacagcgccg aagtccgacg atgtttatct 120
caagctcctt gtcaagctct accgtttctt ggtcaggagg accaagagca acttcaatgc 180
tgtcattctc aagaggctct tcatgagcaa aaccaatcgc ccaccaatct ccatgcgccg 240
ccttgtcaag ttcattggaag gaaaggagaa gaacattgct gtgattgttg gcacagtcac 300
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gacggcaagg gccaggattg tcaatgctgg tggggagtgc ctcacatttg accagcttgc 420
tctccgtgct ccacttggcg agaacacagt cctcttgagg ggccccaaga atgcccgta 480
ggcgggtgagg cacttcggca aggtccttgg agtgccgcac agccacacca agccatatgt 540

gcgcctccaa gggaaggaag ttcgagaagg ctctgggcag gaggaacagc cgtggggt 598

<210> 6493

<211> 599

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-B6

<400> 6493

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ccttatgctc cttggtcttt ctgcaagtgc tgctacggcg accatitttc cgcaatgctc 120
gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtg cttcggtatg 180
tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgagctg gcatcttacc 240
tttatcacc cttggtcctcc aacaatcatc agccctatta caacagttac ctttgggtgca 300
tttattggca caaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360
tgccactct cagcaacagc agtttcttcc attcaaccaa ctaggttcat tgaactctgc 420
ttcttatttg caacaacaac aactaccatt cagccagcta cctgctgcct acccccagca 480
atttcttcca ttcaaccaac tagcagcatt gaactctcct gcttatttac agcagcaaca 540
actactacca ttcagccagc tagctggtgt gagccctgct accttcttga cacaaccac 599

<210> 6494

<211> 593

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-B7

<400> 6494

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cattgtggng aaaacccaat tcttcaacc tacaggatcc aacaggcaat cgcagctggc 120
atcttacctt tatcaccctt gttcctccaa caatcatcag cctattaca gcagttacct 180
ttggtgcatt tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca 240
aaccttgcct cctactctca gcaacagcag tttcttccat tcaaccaact agctgcattg 300

aactctgctt cttatttgca acaacaacaa ctaccattca gccagctatc tgctgcctac 360
 ccccagcaat ttcttccatt caaccaactg acagcattga actctcctgc ttatttacag 420
 cagcaacaac tactaccatt cagccagcta gctgggtgtga gccctgctac cttcttgaca 480
 caaccacagt tgttgccgtt ctaccagcac gctgcgccta acgctggcac cctcttacia 540
 ctgcaacaat tgctgccatt caaccaactt gctttgacaa acccagcagc att 593

<210> 6495

<211> 609

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-B9

<400> 6495

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 ctctcatggg ataaaattgg ttactgccac cacacgtcga aattctccaa atagtataga 180
 ttccaagata catgacaaca atcttatcaa caatattttg gcaaagatag aagggaaatct 240
 tgcccaggct gaggatgcc a ttatgctaga taagggtggg tttgtatcag aaacaaacgc 300
 aacaaatatt tttatggtca aaaagggaat tgtattgaca cctcatgctg actattgcct 360
 tccaggcatt acgcgagcaa ctgtcatgga tcttgtggtg aaagaaaact ttgtgttaca 420
 tgaacgacgc attattctgt cagaattcca tgctgcagat gaggtatgga caaccggaac 480
 aatgggtgaa attacaccgg ttgtaatgat tgatggacgt gaaatcggcg acgggaaaat 540
 tgggtccagtc actagacaaa tccagaaagc atacaagatc ctgacagcag ggcaaggagg 600
 taccgatac 609

<210> 6496

<211> 615

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-C10

<400> 6496

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gaagaatggg acagatttgg tggaaacatt tgctagttac gtngaaagat tattacantt 120
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gctgaatcct catatagact atgggtggtac caagtttgca gtgaggttgc atatttccag 240
gtggcaccaa aaaacgatag tgttcgttcc ccaaagatcg acacgaggta ccatttggac 300
ttgtgcagaa atgttttcgg cgaaggagtc taccctgatg tctttatgac aaacttatac 360
tatggaggca caggaattgc aggttctaaa attgtttttg caaatggatc tcaagacca 420
tggcgccacg cttctaagca gaaatcatca gacgaattgc catcatactt aattgagtgc 480
aagaactgcg gacactgcag tgatctctct ggatgcctc aagctccttc aaacattgaa 540
ggtgattcat ccaagtgctc acctcccgaa gctctgaaca aagtaaggaa agagattgtc 600
gatcacattt gacct 615

<210> 6497

<211> 547

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-C11

<400> 6497

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cggggcagaa gtactacggg cgcggcccg cgcagatctc gtggaactac aactacgggc 120
ccgccgggag ggacatcggc ttcaacgggc tcgccgaccc caacaggggtg gcgcaggacg 180
cggggatcgc gttcaagacg gcgctctggt tctggatgaa caacgtgcac cgctgatgc 240
cgcagggctt cggcgccacc atcagggcca tcaacggcgc cctcgagtgc aacgggaaca 300
accccgccca gatgaacgcg cgcgtcggct actacaagca gtactgccag cagctccgcg 360
tcgacccagg gcccaacctc acttgctagg ccagcagctc ctgctagctc gtccacaata 420
aatgctcggc gtgcgacctc cgcgaaacca agagtttact actgactagt acgagctagc 480
tagcatgcag taataataat catcgtaata ataataataa aacgacgggg ctgagccact 540
ttgttcg 547

<210> 6498

<211> 648
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 6498

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aaagctccag agtttcacac cagggctgtg gtcacaatac aaagcttatg ,aggatgcagt 180
tgtggagaac attaaaggag aggggggggg atgctctggt tcttgtgaga gagcatcagg 240
cggaggcaat tggatgtgcc actggttcag gattcattct gttcagaggc cctcgaagat 300
ttttataccg caataccttt ggccgtttta agactgagaa ggatttactg aatgatgccg 360
agcaaagtat gatggagtac caaacatcta ttcagaactt gaagaaagaa tcaaaatata 420
ctcttgacaa agtagctatc ggtgaaagcg atgtgcagcg tgggcgaact gatctgagat 480
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caggtctgat ggatagacta agaaccattc caaccaggca atctctcgag ctgcgagcag 600
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<210> 6499
 <211> 520
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-C3

<400> 6499

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gctgtgggca atgcacctac atacctgcaa caacaattgt tgcaacagat tgtaccagct 180
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aaccagttct ctttgatgaa tcctgtcttg tcgaggcagc aacctatcgt tggaggtgcc 420
  
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atcttttaga ttacatatga gatgtactcg ataatgggtgc cctcataccg acgtgtgttt 480
cctagaaata atcaatatat tgattgagat ttatctcgat 520

<210> 6500
<211> 606
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-C5

<400> 6500

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ccacaatgct cacaacaata cctctctccg gtgacagccg cgggatttca ataccctaact 180
atacaatcct acatggtaca agaggccatc caagcaagca tcttacggtc attagcatta 240
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agaatcgccg cacaacaact acaacaacag ttgctacca caatcaatca agtagttgca 360
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aacattgttg ctttcttgag acaacaacat ttgttgccat tttaccaca agttgtggga 600
aacatt 606

<210> 6501
<211> 102
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-C7

<400> 6501

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caccacaacc accagccca acaacaaccc caccgcaaca ac 102

<210> 6502

<211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-066-Q1-K6-C8

<400> 6502

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ccttattgcc tcttgataca accaccatta cttccctttt ctaccaacac tcatccnct 180
aaattctggg gatgttgggg ggaacaact accctactct nccctctcct ccaactaatca 240
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<210> 6503
 <211> 625
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-066-Q1-K6-C9

<400> 6503

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agcttccttt cttcccccat acctctcacc agcgggtgtt tcagtatgtg aaaaccaat 180
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acaacaacta ccattcagtc agctagctgc tgctacccc cagcaatttc ttccattcaa 480
ccaactggca gcattgaact ctgctgctta ttacaacag caacagctac caccattcag 540
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ccagctagct gatgtgagcc ctgttgccctt cttgacacac aacagttggt gccgttctac 600
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<210> 6504

<211> 593

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-D10

<400> 6504

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 cacgcgagtg tgaaatgtaa cgttatatac ttgtatactg accttggtac ttaatcattg 180
 tgatgtttta taattttttt gttatgattt catgtttaat agctctgtac agcatgtgtg 240
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 atggtaagtc tacttctagt tctatgtgtt tacattattt taattttggc aatcttcaca 360
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 ttggatcaag attctgaacc aaggacttac agcgaaatct agggatcctg aattccttga 540
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<210> 6505

<211> 608

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-D11

<400> 6505

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 tagcttccct tottccccca taccttccat caatgatagc ttcagtatgt gaaaaccag 180
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tgttggtttca acaatcgcca gccctatctt tgggtgcagtc attggtacaa accatcaggg 300
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 ctgcttattt gcagcaacaa ctattaccat tcagccagct agctactgcc tactctcagc 480
 aacaacaact tcttccattt aaccaattgg cgcactgaa ccccgctgct tatttgagc 540
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<210> 6506

<211> 344

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-D12

<400> 6506

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 ttgctcgtaa cccaagaaac ggtgctccac cgcccatttt catgtttgtg taacagttat 240
 tattcatcgg taacactagg actttgggtg gacgcggcag taagcatgta ttacacaaa 300
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<210> 6507

<211> 613

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID; LIB3061-066-Q1-K6-D2

<400> 6507

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 aagtagctct ggcaaaccct tctccctact ctgagcaaca acaatttctt ccattcaacc 180

aactgtctac actgaaccct gctgcttatt tgcagcaaca actattacca tttagccagc 240
tagctactgc ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga 300
accccgctgc ttatttgcag cagcaaatac tactgccatt tagcgagcta gctgcagcaa 360
gtcgtgcttc cttcttgaca cagcaacagt tgctgccttt ctacaagcag tttgcggcta 420
accccgcaac cctcttacia ctacaacaat tgttgccctt tgtccaactt gctttgacaa 480
accagcagc ctctaccaa caacacatca nttgggtggg cctcttttta gattgattat 540
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gttacatttc cag 613

<210> 6508
<211> 621
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-066-Q1-K6-D3
<400> 6508

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atctccgtca cggatcccggt aaagatgggt accggcgtgc agtcctacat ctctaccgc 180
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caaagtgatg tcttgaggac atttttgcaa gcagatgaag agataatgga tagggcaaga 480
tcttatgaga ctgggtatttt taagaaaccg gcagatttca tacagatgtt taaggatgtg 540
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gaatatgaga agcttaaaaa t 621

<210> 6509
<211> 608
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-D5

<400> 6509

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ggccaccact aactacatt aactagcac aagcaagcag ctacacatac ttgtccatat 240
cacataaacg aaacagcata tataagaaga tgtcccaaca tctttgcacc acgcgcgaga 300
tcagggggccc tgcaggccga actcttcagg gcgcggccac gttctccttg gcgagcggcg 360
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tctcccagtt cttggcaggg cccttcagg agagatcctg gatcatgcag ttcctcacca 480
tctcctcgta cgccggcgtg ccgaccacct tgatggcgcg ctgcaatgtg gtggccacct 540
tcttgacgtc cgccggctcc acgacgttac agtcgacgct gagggggccc atgtggaacc 600
cggtcttg 608

<210> 6510

<211> 616

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-D6

<400> 6510

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ttcaacccta caggatccaa caggcaatcg cagctggcat cttaccttta tcacccttgg 180
tcctccaaca atcatcagcc ctattacaac agttaccttt ggtgcattta ttggcacaaa 240
acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc tactctcagc 300
aacagcagtt tcttccattc aaccaactag gttcattgaa ctctgcttct tatttgcaac 360
aacaacaact accattcagc cagctacctg ctgcctaccc ccagcaattt cttccattca 420
accaactagc agcattgaac tctcctgctt atttacagca gcaacaacta ctaccattca 480
gccagctagc tgggtgtgagc cctgctacct tcttgacaca accacagttg ttgccgttct 540

accagcacgt tgcgcctaac gctggcaccc tcttacaact gcaacaattg ctgccattca 600
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<210> 6511
 <211> 588
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-066-Q1-K6-D7

<400> 6511

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 ctcaatgctc acaagctcct atagcttccc ttcttcccc atacctcca tcaattatag 180
 cttcaatatg tgaaaaccca gctcttcaac catataggct tcaacaagca atcgagcaa 240
 gcaacatacc tttatcgccc ttgtgtttc aacaatcgcc agccctatct ttggtgcagt 300
 cattggtaca aaccatcagg gcacaacagc tgcagcaact cgtgctacct ctgatcaacc 360
 aagtagctct ggcaaaccct tctccctact ctcagcaaca acaatttctt ccattcaacc 420
 aactgtctac actgaaccct gctgcttatt tgcagcaaca actattacca tttagccagc 480
 tagctactgc ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga 540
 accccgctgc ttatttgcag cagcaaatac tactaccatt tagccagc 588

<210> 6512
 <211> 616
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 6512

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 gctcgcaagc tcttatagct tcccttcttc ccccgctacct ctcaccagcg gtgtcttcgg 180
 ggtgggaaaa cccaattctt caaccctaca ggatccaaca ggcaatcgca gctggcatct 240

tacctttatc acccttggtc ctccaacaat catcagccct attacaacag ttacctttgg 300
 tgcatttatt ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc 360
 ttgctgccta ctctcagcaa cagcagtttc ttccattcaa ccaactaggt tcattgaact 420
 ctgcttctta tttgcaacaa caacaactac cattcagcca gctacctgct gcctaccccc 480
 agcaatttct tccattcaac caactagcag cattgaactc tcttgcttat ttacagcagc 540
 aacaactact accattcagc cagctagctg gtgtgagccc tgctaccttc ttgacacaac 600
 cacagttggt tgccgt 616

<210> 6513

<211> .623

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-D9

<400> 6513

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 cgtcagagtgt cgaaatgtaa cggtatatac ttctgtatct gcaccttagc tactttaatc 180
 attggggggg gggggataat ttttttggtt tgatttcatg ttcaatagct ctgtacagca 240
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 ggctcatgg taagtctact tctagttcta tgtgtctaca ttattttaat tttggcaatc 360
 ttcacaatct aaaagtctgt caaaacacgt catggaagtc cctgaaatat ctcttatgtc 420
 aaaatacttg tccactcatg atgttattct ttctgtggat ggtctgaaaa taaccagaac 480
 tgatgattgg atcaagattc tgaaccacag tactacagcg aaatctaggg atcctgaatt 540
 ccttgaaggc tctcataaat atgttgccac tagttctacc aaaggctatt gcgtgccta 600
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<210> 6514

<211> 606

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-E1

<400> 6514

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gcttcgaaca tccagccgtg caagcctaca ggctacaact agcgcttgcg gcgagcgctt 120
tacaacaacc aattgcccac ttgcaacaac aatccttggc acatctaacc ctacaaacca 180
ttgcaacgca acaacaacaa caacaacagt ttctgccatc actgagccac ctagccgtgg 240
tgaaccctgt cacctacttg caacagcagc tgcttgcatc caaccactt gctctggcga 300
acgtagctgc ataccagcaa caacaacagc tgcaacagtt tatgccagtg ctcaagtcaac 360
tagccatggt gaaccctgcc gtctacctac aactactttc atctagcccg ctgcggtgg 420
gcaatgcacc tacgtaccta caacaacagt tgctgcaaca aattgtacca gctctgactc 480
agctagctgt ggcaaaccct gctgcctact tacaacagtt gcttccattc aaccaactgg 540
ctgtgtcaaa ctctgtgctg tacctacaac agcgacaaca gttacttaat ccattggcag 600
tggcta 606

<210> 6515

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-E10

<400> 6515

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ccccccggg ggggggggcc ggcnncccc nccncccc cccccacccc ccnnnnnnc 180
aaccaacccc cccccccccc cccccccccc cccccanncc ccaccccnnc cccccccccc 240
ccccccncc cccccccccc cccccccccc cccccaccc cccccccccc cncnccnccc 300
caccaccccc cccccancc cccccccccc cccccccccc cccccccccc nccccccccc 360
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ccccccccc cccccccccc cccccccccc cccccacc 458

<210> 6516

<211> 600
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-066-Q1-K6-E11

<400> 6516

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tccctcaatg ctcacaagct cctatagctt cccttcttcc ccatacctt ccatcaattg 180
tggggggggg gtgggaaac ccagctcttc aaccatatag gcttcaacaa gcaatcgag 240
caagcaacat acctttatcg cccttggtgg ttcaacaatc accagcccta tctttggtgc 300
agtcattggt acaaaccatc agggcacaac agctgcagca actcgtgcta cctgtgatca 360
accaagtagc tctggcaaac ctttctccct actctcagca acaacaattt cttccattca 420
accaactgtc tacactgaac cctgctgctt atttgcagca acaactatta ccatttagcc 480
agctagctac tgctactct cagcaacaac aacttcttcc atttaaccaa ttggccgcac 540
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<210> 6517
 <211> 599
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-066-Q1-K6-E2

<400> 6517

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aatgcgttc attattccac aatgctcact tgctcctagt gccattattc cacagttcct 180
ccctccagtt acttcaatgg gcttcgaaca ccagctgtg caagcctaca ggctacaaca 240
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acatttaacc atacaaacca ttgcaacgca acagcaacaa caatttctac cagcactgag 360
ccaactagct gtggtgaacc ctgtcgcta cttgcaacag cagttgcttg catccaacct 420
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acttgctctg gcaaacatag ttgcgtacca acaacaacaa caattgcaac agtttctacc 480
 agcgctcagt caactagcca tgggtgaaccc tgccgcctac ctacaacagc aacaactgat 540
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<210> 6518

<211> 591

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-E5

<400> 6518

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 agctcctata gcttcctttc ttccccata cctctcacca gcggtgtctt cagtatgtga 180
 aaacccaatt cttcaaccct acaggatcca acaggcaatc gcagcaggca tcttaccttt 240
 atcacccttg gtctctcaac aaccggcagc cctattacag cagttacctt tgggtgcattt 300
 gttggcaciaa aacattaagg cacaacaact acaacaactt gtgctaggaa accttgctgg 360
 ctactctcag caacagcagt ttctttcatt caaccaactg gctgcattga actctgctgc 420
 ttatttgcaa caacaactac cattcagtca gctagctgct gcttaccacc agcaatttct 480
 tccattcaac caactggcag cattgaactc tgctgcttat ttacaacagc aacagctacc 540
 accattcctc cagctagctg atgtgagccc tgttgccctc ttgacacaac a 591

<210> 6519

<211> 625

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-E6

<400> 6519

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 acaagctcct atagcttctt ttcttcccc atacctctca ccagcgggtgt cttcagtatg 180

tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgcagcag gcatcttacc 240
 tttatcacc ttgttcctcc aacaaccgtc agccctatta cagcagttac ctttggtgca 300
 tttgttgga caaaacatca aggcacaaca actacaacaa cttgtgctag gaaaccttgc 360
 tgcctactct cagcaacagc agttttcttc attcaaccaa ctggctgcat tgaactctgc 420
 tgcttatttg caacaacaac taccattcag tcagctagct gctgcctacc cccagcaatt 480
 tcttccattc aaccaactgg cagcattgaa ctctgctgct tatttacaac agcaacagct 540
 accaccattc agccagctag ctgatgtgag cctgtgtgcc ttcttgacac aacaacagtt 600
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<210> 6520
 <211> 379
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-066-Q1-K6-E7
 <400> 6520

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 caacacaacc tcctatccac ccttcaccac caaccttcat aggggggggg gaaatcttaa 180
 aacaacctta tccaacacat agcctaacaa aaaatacctt aacaacaaaa cctctatccc 240
 ctgaacctcc aacaacacca accctatctt gcacacacat cgcaacacat cactcaccac 300
 aacaactaca ccaactctgc gacacctaac caaccaccat actctacaaa accttactcc 360
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<210> 6521
 <211> 621
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-066-Q1-K6-E9
 <400> 6521

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atgctcaciaa gctcctatag ctcccttct tccccgtac ctctcaccag cgggtgtcttc 180
 ggtgtgtgaa aaccaattc ttcaacccta taggatccaa caggcaatcg cagctggcat 240
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 ccagcaattt ctccattca accaactgac agctttgaac tctcctgctt atttacagca 540
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<210> 6522
 <211> 567
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-066-Q1-K6-F10
 <400> 6522

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 ttataaaatg gctcctataa cccctgtttg gaagagtaat gaagcagcag tgattattca 180
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 ctgcaccccc agcaggtgag aacaatgctc acagtgatth cattcatgaa ctttccttaa 420
 gtaataactt cgagtttgct gaggtgttc tgaaattgtc tttgaaggta aataatttgt 480
 gcattatttg gactggttta aaattgtgtt caaaggcata tggagccaat tttcgagg 540
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<210> 6523
 <211> 598
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-066-Q1-K6-F11

<400> 6523

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aggcgatgag gaaacgtgag cgggagaatc cgtgcgggat ctgcgggcac taccagggtg 180
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ccttaatact gtgcctgatt gccacaatct gtacaagaat tcattcacat atcacagtct 420
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agataaatcg cgtgttcttg ttcattgcat gactggaaaa acaggctctgc tgctattgtt 540
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<210> 6524

<211> 570

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-F12

<400> 6524

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aacaacgcan gcctgggggg ggggggggaa nagcccttcg tctctaagct tcttcagcca 180
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gtccttcctt gatgacgggc agcaggagga aggttatgtg ctgacatgcg tctcctaccc 480
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570

<210> 6525

<211> 620

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-F2

<400> 6525

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tcaaccaagt agctctggca aacctttctc cctactctca gcaacaacaa tttcttccat 180
tcaaccaact gtctacactg aaccctgctg cttatttgca gcaacaacta ttaccattta 240
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cactgaaccc cgctgcttat ttgcagcagc aaatactact accatttagc cagctagctg 360
cagcaaaccg tgcttccttc ttgacacagc aacagttgct gcctttctac cagcagtttg 420
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tgacagaccc agcggcctcc taccaacaac acatcattgn gtggtgccct cttttagatt 540
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<210> 6526

<211> 613

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-F3

<400> 6526

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<210> 6527

<211> 612

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-F7

<400> 6527

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 atgtcacaa gtcctatag cttcccttct tccccatac ctctcaccag cgggtgtcttc 180
 aatgtgtgaa accccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat 240
 cttaccatta tcacccttgt tcctccaaca accgtcagcc ctattacagc agttaccttt 300
 ggtccatttg gtggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa 360
 ccttgetgca tactctcagc aacatcagtt tcttccattc aaccaactgg ctgcattgaa 420
 ctctgetgct tatttgcaac aacaattacc attcagccag ctagttgctg cctaccccca 480
 gcaatttctt ccattcaacc aactagcagc attgaactct gctgcttatt tacagcagca 540
 acaactacta ccatttcacc agctagctga tgtgagccct gctgccttct tgacacaaca 600
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<210> 6528

<211> 594

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-G1

<400> 6528

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gctcacaagc tcctatagct tcccttcttc ccccatacct ctcaccagcg gtgtcttcaa 180
tgtgtgaaac cccaatggt caaccctaca ggatccaaca ggcaatcgca acaggcatct 240
taccattatc acccttggtc ctccaacaac cgtcagccct attacagcag ttacctttgg 300
tccatttggt ggcaaaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc 360
ttgctgcata ctctcagcaa catcagtctc ttccattcaa ccaactggct gcattgaact 420
ctgctgctta ttgcaacaa caattaccat tcagccagct agttgctgcc tacccccagc 480
aatttcttcc attcaaccaa ctagcagcat tgaactctgc tgcttattta cagcagcaac 540
aactactacc attcagccag ctagctgatg tgagccctgc tgccttcttg acac 594

<210> 6529

<211> 619

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-G11

<400> 6529

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agaacaacca attgccaat tacaacaaca atccttgga catctaacca taaaaccat 120
cgcaacgcag cagcaacaag cactgagcca cctagccgtg gtgaacccta tcgcgcgggg 180
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aacaacaaca gttgcaacag tttctaccag cgctcagtca actagccatg gtgaacccta 300
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ctacatacct gcaacaacag ttgttgcaac aacagttgct gcaacaaatt gtaccagctc 420
ttactcagct agctgtggca aaccctgctg cctacttgca acaactactt ccattcaacc 480
aactgactgt gtcgaactct gctgcgtacc tacaacagcg acaacagtta cttaatccac 540
tagcggtgga taaccattg gtcgctgcct tctacagca gcaacaattg ctgccatata 600

accagttctc tttgatgaa

619

<210> 6530

<211> 585

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-G12

<400> 6530

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aaccattttc ccacaatgct cacaagctcc tatagcttcc cttcttcccc catacctctc 120
accagcggtg tcttcaatgt gtgaaacggg aattgttcaa ccctacagga tccaacaggc 180
aatcgcaaca ggcattcttac cattatcacc cttgttcttc caacaaccgt cagccctatt 240
acagcagtta cctttggtcc atttggtggc aaaaaacatc agggcacaac aactacaaca 300
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actggctgca ttgaactctg ctgcttattt gcaacaacaa ttaccattca gccagctagt 420
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ttatttacag cagcaacaac tactaccatt cagccagcta gctgatgtga gccctgctgc 540
cttcttgaca caacaacagt tgttgccgtt ctacctgcac gctat 585

<210> 6531

<211> 619

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-G2

<400> 6531

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atgctcgcaa gctcctatag ctcccttct tccccgtac ctctcaccag cgggtgtcttc 180
ggatatgtgaa aaccaattc ttcaacccta caggatccaa caggcaatca cagctggcat 240
cttaccttta tcacccttggt tcctccaaca atcatcagcc ctattacatc agttaccttt 300
gggtgcattta ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa 360

ccttgctgcc tactctcagc aacagcagtt tcttccattc aaccaactag ctgcattgaa 420
ctctgcttct tatttgcaac aacaacaact accattcagc cagctacctg ctgcctaccc 480
ccagcaattt cttccattca accaactggc agcattgaac tctcctgctt atttacagca 540
gcaacaacta ctaccattca gccagctagc tgggtgtgagc cctgctacct tcttgatata 600
accacagttg ttgccgttc 619

<210> 6532

<211> 619

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-G3

<400> 6532

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ggcgacctcc atccgggctg gtttagattca tcgcttttct tgtegtgtc cctcggcctt 180
tccccctact gtgctccgag tctgggagaa gcgactcgcg cacgcgctcg gccaaaccaa 240
ttaagcacag agcggggctc tcgggcgaga acgcgctgag gcagtgtgtg gtttgcagtt 300
cgtgccgtag cgtttttttt gtgtgtgtgc cgaagcggag aggcgatggc tgcgccgagg 360
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gcgaggggtg ccgagtccgt cgctgggcgc cgcgccgagc tcgcccgcct ccagggtttc 480
gccgccgaca acgccgccct cgtctcctc gtcaacaggc tccccgacga actctctcac 540
gatatcatgg ttccctttgg tggcgccgcc tttttcccag ggcgtttaat acacacaaat 600
gaactcttgg tgcttctgg 619

<210> 6533

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-G6

<400> 6533

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aacaacaact accattcagc cagctacctg ctgcctaccc ccagcaattt cttccattca 120
 accaactggc agcattgaac tctcctgctt atttacagca gcaacaacta ctaccattca 180
 gccagctagc tgggtgtgagc cctgctacct tcttgataca accacagttg ttgccgttct 240
 accagcacgc tgcgcctaac gctggcacc ctttacaact gcaacaattg ctgccattca 300
 accaacttgc ttgacaaaac ccagcagcgt tctaccaaca acccatcatt ggtggtgccc 360
 tcttttagat ttcttatgag ttatagttca ataataaagt tttttgtctg atgtttgtgg 420
 cttcccagaa ataagaaagt acatttctag attctt 456

<210> 6534

<211> 596

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-G7

<400> 6534

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 ctaccaagat attagccctc cttgcgcttc ttgccctttt tgtgagcgca acaaatgcgt 120
 tcattattcc acaatgctca cttgctccta gtgccattat tccacagttc ctcccaccag 180
 ttacttcaat gggcttcgaa cacctagctg tgcaagccaa catgcaacaa caagcgcttg 240
 cggcgagcgt cttacaacaa ccaattgccc aattgcaaca acaatccttg ccacatctaa 300
 caatacaagc catcacaacg caacagcaac aacagttcct accagcactg agccacctag 360
 ccatggtgaa ccctgccgcc tacttgcaag agcagctgct tgcattccaa ccaattgctc 420
 tggcgaacgt agttgcaaac cagcaacaac aacagctaca acagtttctg ccaacgctca 480
 gtcaactagc catggtgaac cctgccgcct acgtacaaca acaacaactg ctttcatcta 540
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<210> 6535

<211> 619

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-G8

<400> 6535

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ctaccaagat attagccctc cttgcgcttc ttgccctttt agtgagcgca acaaatgcgt 120
tcattattcc acagtgtctc cttgtctcta gtgccattat tccacagttc ctcccaccgg 180
gggcttcaat gggcttcgaa catccagccg tgcaagccta caggctacaa ctagcgcttg 240
cggcgagcgc cttacaacaa ccaattgccc aattgcaaca acaatccttg gcacatctaa 300
ccctacaaac cattgcaacg caacaacaac aacaacaaca gtttctgcca tcaactgagcc 360
acctagccgt ggtgaaccct gtcacctact tgcaacagca gctgcttgca tccaaccac 420
ttgctctggc gaacgtagct gcataccagc aacaacaaca gctgcaacag tttatgccag 480
tgctcagtca actagccatg gtgaaccctg ccgtctacct acaactactt tcacttagcc 540
cgctcgcggt gggcaatgca cctacgtacc tacaacaaca gttgctgcaa caaattgtac 600
cagctctgac tcagctagc 619

<210> 6536

<211> 619

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-G9

<400> 6536

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ttcttgccct ttttgtgagt gcaacaaatg cgttcattat tccacaatgc tcaacttgctc 120
cgagtgccat tattccacag ttccctccctc cagttacttc aatgggcttc gaacaccag 180
ctgggcaagc ctataggcta caacaagcgc ttgcgycgag cgtcttagaa caaccaattg 240
cccaattaca acaacaatcc ttggcacatc taaccatata aaccatcgca acgcagcagc 300
aacaagcact gagccaccta gccgtggtga accctatcgc ctacttgcaa caacagctgc 360
ttgcatccaa cccacttgct ttggcaaacg tagctgcata ccaacaacaa caacagttgc 420
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agcaacaact tctttcatct agcccgctcg ctatgggcaa tgcacctaca tacctgcaac 540
aacagttggt gcaacaacag ttgctgcaac aaattgtacc agctcttact cagctagctg 600

tggtcaaacc tgctgccta

619

<210> 6537

<211> 593

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-H10

<400> 6537

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gggggggagga atcgagccgg cggcttgccg cggcatcagc gatggcgggc aagcgggaga 120
tctcgagcac cctcaggaac ctcaagtta tgcagcgccg cgcggctgcg cagaaggggg 180
aggagaaggc cgaggtggag gtacaggagg aggaggtggg gatggcgccg agtggaggct 240
tcgcctcgtc cgcgcaggtc gttaggaagt gcatagttat catggagggt aatcctcatc 300
caggagctat aaagggtcgg atgtctttcc aaaatttcaa tccatctatc gataaactaa 360
atgaagaggc aagaggtgac cagcaaacag aatcagcttc cccagtaac tgtgaccaag 420
acaatgcaaa ctccagcaga gggaatgaag ttccagcatc aagatgtaga gattttggca 480
ttcccagttc agaaagcata tctctaaatg aactgaaaag gaaggagccc gaccttgata 540
tggaacaccc ggcattctac aaggaaccaa aaaccaatgt tggcggtagg tca 593

<210> 6538

<211> 613

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-H11

<400> 6538

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gcaattgcgg cgagcgtctt acaacaacca atttcccagt tgcaacaaca atccttggca 180
catggggggg ggcaaaccat cncaacgcaa cagcaacaac aattcctacc agcactgagc 240
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cttgctctgg caaacgtagt tgcaaaccag ccacaacaac agctgcaaca gtttctgcca 360
gcgctcagtc aactagccat ggtgaaccct gccgcctacc tacaacagca acaactgctt 420
tcattctagcc cgctcgctgt ggccaatgca cctacatacc tgcaacaaca attgttgcaa 480
cagattgtac cagctctgac tcagctagtt gtggcaaacc ctgctgccta cttgcaacag 540
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<210> 6539

<211> 611

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-K6-H12

<400> 6539

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tcctatagct tcccttcttc ccccgtagct ctcaccagcg gtgtcttcgg tatgtgaaaa 180
cggaatgctt caaccctaca ggatccaaca ggcaatcaca gctggcatct tacctttatc 240
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ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta 360
ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta 420
tttgcaacaa caacaactac cattcagcca gctacctgct gcctaccccc agcaatttct 480
tccattcaac caactggcag cattgaactc tcctgcttat ttacagcagc aacaactact 540
accattcagc cagctagctg gtgtgagccc tgctaccttc ttgatacaac cacagttggt 600
gccgttctac c 611

<210> 6540

<211> 603

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-H5

<400> 6540

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 ttggcacaaa acatcagggc acaacaacta caacaactcg tgctagcaaa ccttgggggc 180
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 caactacaac aactcgtgct agcaaactt gctgcctact ctgagcaaca acagtttctg 300
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 gcattgaact ctcatgctta tgtacaacaa caacaactac taccattcag ccagctagct 480
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<210> 6541

<211> 568

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-H6

<400> 6541

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 aacagcagtt tcttccattc aaccaactag gttcattgaa ctctgcttct tatttgcaac 180
 aacaacaact accattcagg caggtacctg ctgcctaccc ccagcaattt ctccattca 240
 accaactagc agcattgaac tctcctgctt atttacagca gcaacaacta ctaccattca 300
 gccagctagc tgggtgtgagc cctgctacct tcttgacaca accacagttg ttgccgttct 360
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 tcttttagat ttcttatgag ttatagttca ataataaagt tttttatctg atgtttgtgg 540
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<210> 6542
 <211> 590
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-066-Q1-K6-H7

<400> 6542

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gaaagattcc gtgaggatgg acgaaagact gttcttcgtc tagttgagat ggaagccagc 180
tacctaacag tagagttttt ccgtaaactt cctactgaac cagagaaagc agctgataag 240
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tcatcttata ttaacatggg ctgtgagact ctgaggaaca cggttccgaa agccatcgtg 360
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agggatgcct tggtaagag gctagagctg tacaatctg caaggaatga gatcgactcg 540
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<210> 6543
 <211> 610
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-066-Q1-K6-H9

<400> 6543

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tgctcacttg ctcttagtgc cattattcca cagtctctcc caccagttac ttcagggggg 180
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aaccctgtca cctacttgca acagcagctg cttgcatcca acccacttgc tctggcgaac 420
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aatgcaccta cgtacctaca acaacagttg ctgcaacaaa ttgtaccagc tctgactcag 600
ctagctgtgg 610

<210> 6544
<211> 468
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-066-Q1-N6-A1
<400> 6544

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tggaataaaa attttttttt ttgggttttt ttttttaaaa aaaggtaggg ggggggcccc 300
aaaagggggg gtgtggggaa aagttttttg gtttttaaaa aaaaaggtgg gggaggggga 360
aaaaattttt tttttgtaaa aggggggggt tttagggggg tttgggtttt taaaaaagga 420
aaaatttggg gtgtttataa agaggggggg ggggttataa aaattttt 468

<210> 6545
<211> 463
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-066-Q1-N6-A10
<400> 6545

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ctagaacttt agtaaacaaa ctcatgacat ccatgggggg gggggggcac cacaagtaaa 180
cccaacatac ccaaagggtg ggaccacatt ccaccatcct acgacattac gaccatattg 240
acaaacgcca taattcttgg aaccaattt tatttaaaaa aacgaccgag gggaactgcc 300

gttccttaaa ccacgcaggt accacgaccg caaaccgagg ttttaaccgga gatctgaatg 360
gactttactt taggcttttt ggggtccttc tttcgcacaa ggactggaaa caccctgttt 420
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<210> 6546

<211> 562

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-N6-A11

<400> 6546

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caagttgggtt aaatggcagc aattgttggt gttgtaagaa ggcgacattg tttgccacat 240
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caagttgggtt gaatggtagt agctgttggt cctgcaagta agcagcaggg gtcaccccag 480
ctagttgatt gaatggaaga aaattttgtt gctgggggta agcagcaagg gtcgctgcaa 540
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<210> 6547

<211> 530

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-N6-A12

<400> 6547

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ttcataaaag gtttgctgca acttctaggg cagcttataa cagtacatac tagcagcaca 120
aatggtcaag gaacagcatg ccaaacaacg catggggggc ggggaacgct cnacttctg 180

tcaagcggct cttaccatac caaggttaca cgatccatcg atgcaatacc attgtaggtt 240
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 ttcttcaaga tcaccacgat tccagacctt atgtagtacc cttcttccgg gtgatcagcc 360
 tcttggtatgc cttactgtt tgtgatcacc acgttcttcc caatcctagc attcatgtca 420
 atgatacagt tccttatctt tgtgttcctt cctattccaa ctgggacctt cccagctaac 480
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<210> 6548

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-A3

<400> 6548

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 ccattatcga gtacatctca tatgtaatct aaaaaaggca cctccaacga tgggttgctg 120
 cctcgacaag acagggttta tcaaaaagaa ctggttgat ggcaacaatt gttgctgctg 180
 taggaaggca gccaccaatg ggtagccac tgctagtga ttaaataact gttgtcgtg 240
 ttgtaggtac ccaacaaagt tcgacataat cagttggttg aatggaaaca gctgttgcaa 300
 gtaggcaaca gggtttgcca caactagctg agtcaaagct ggtacaatct gttgcaacaa 360
 ttgttggtgc aggtatgtag gtgcattggc cacaacgagc gggctaaatg aaagcaattg 420
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<210> 6549

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-A4

<400> 6549

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 tatcgacca aaaacaaaa cacaatccaa tctagtatca atccctcaaa agagctcaga 180

agttttctttt tttcacaagt actatatctg ctgtagcttg tgtcttagta ataatatgta 240
 aaaaaaaagc agccataagt tggttcagaca tctctcgcgt aggagccctg ccgaaaagct 300
 tcaagacttg ctggagatgt tgctggaaag ccagtcaagc cccatcataca acccttcacc 360
 agatgtagca caagtgcctt ggatgtacca gtgccgctgt cgcaggggaat gcagaccaag 420
 cttgtcagta atttcag 437

<210> 6550
 <211> 564
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-A5

<400> 6550

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 tttacatgta ctgaaacaaa cgggggttct tggtggcgca catcctcact caaggcacac 180
 atcctcaatt actatagctt agcctgcac cagagtgagga ctggggctct cgccttgaa 240
 gccgtttgct gagtgagctg gtaacctcaa ctcagtgtta tacatggacc aagaaactaa 300
 atctccagaa taaaactgac ccctgtatgt tagttcggat attgtatatt tcttatgaaa 360
 gatcaaatga tctcggcct tccaggatcg cataaagcaa cttcttgccg atgatttctt 420
 ttgtggagta ggggggcagc ttcagataat tggcgacgt catcacacta ggcaaatcat 480
 tatcagcgga ctctactgcc ccatttgaat ttgaaagttt cacagcactt gagagatgct 540
 tcctaactat agtaagcttg gggc 564

<210> 6551
 <211> 563
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-066-Q1-N6-A6

<400> 6551

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 aagaagtctg agcgcattgct catgagcgcc gaggagaagt tcccaggcaa ggtgcgcgcc 120

gtggtcaagt tcaacgcggc gctggcgcac cacatcatgg cggcgccga cgtgctcgcc 180
gtcaccagcc gcttcgagcc ctgcggcctc atccagctgc aggggatgcy atacggaacg 240
ccctgcgcct gcgcgtccac cgggtggactc gtcgacacca tcatcgaagg caagaccggg 300
ttccacatgg gccgcctcag cgtcgactgt aacgtcgtgg agccggcgga cgtcaagaag 360
gtggccacca cattgcagcg cgccatcaag-gtggtcggca cgccggcgta cgaggagatg 420
gtgaggaact gcatgatcca ggatctctcc tggaagggcc ctgccaagaa ctgggagaac 480
gtgctgctca gccntcgggt cgccggcggc gagccagggg tcgaaggcga gggagatcgc 540
gccgctcgcc aaggagaacg tgg 563

<210> 6552

<211> 486

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-A7

<400> 6552

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ctgggtggcc acatacatca tccaaaaaac tttattattg gaattacaac taataatcaa 120
tctaaaagag ggccccacca atgatgtgtt gtggggggga ggctgctggg tttgtcaaag 180
caagttggac aaagggcaac aattgttgta gttgtaaaag ggttgcgggg ttagccccaa 240
actgcttgta aaaaggcagc aactgttgct gtgtcaaaaa ggaagcacga cttgctgcag 300
ctagctcgct aaatgggagt aatatttgct gctgcaaata agcagcgggg ttcagtgcgg 360
ccaattggtt aaatggaaga agttgttggt ggtgaaagta ggcaataact aactggctaa 420
atggtaatag ttgttggtgc aaaaaaacac cagggttcaa tgtagacagg tggtttaatg 480
gaaaaa 486

<210> 6553

<211> 536

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-N6-B1

<400> 6553

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gtagtagtac tagcttgcta ctgccacgtg actggacgat gtctggatgt gtgtgtcgtc 180
gtccccctgcc gcctgccggg cctatctatc tcctgggtgc ttgggtgcat gcattgcctt 240
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cacggccgac gaccgcgctg ccggtggtgg ccctgctgag cctcgccagg aggccgcgtt 360
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aggtggtgac aaggcgggtg ttgaggacga acatctcgag cttgggcagg tcgttgccgg 480
ggcacgcgtg cacgccgctc cctaacggca ggaacgtgcc gggccgcggg gccacc 536

<210> 6554

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-N6-B11

<400> 6554

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tttttttttt tttttttttt tttttttttt ttttttnaaa aattgggggg gggggggggg 180
nttcccccaa cccctcccc aaaaattttt ttttgaaatc ccacaaaaa ttcacaaaa 240
aaagcccccc ccccaaattt tttatntgta aaaagcccc ttttttttta aaacctgttt 300
tccaaaggcc aaaaaatttt tttagcttta aaagagtgcc ctggtttacc ccaacattct 360
tttaaaaaaa ccaaaatctt tttttttttt 389

<210> 6555

<211> 580

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-N6-B12

<400> 6555

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catatcagca tgagaacttt attattacag tataaatcat aaaaaatcta gaagatggca 120
ccaccaatgg tgggcggttg caataagggtg gtaggggggg ggggggcatg ttnnctaaat 180
ggtagcaatt gttgttggtg taagaaggca acaatgtttg ccacattctg tgggtagaat 240
ggtagcaatt gttgctgttg caagaaggca ttaatgtttc ccacaacttg tgggtaaaat 300
ggcaacaaat gttgttgctc caagaaagca acaatgtttg ccacagcttg cagatggaat 360
ggcagaagct gttgttgag taagaaggca taagggtccc cgacaagttg gttaaagtgt 420
agtagctgtt gtgcctgcaa gtagatagca ggggttcccc cagctagtgt attgaatgga 480
agaaactgtt gttgctggag gtaagcagca aggttcgctg caactacttg attgattgtt 540
ggtagcaact gttgttgtag ttgttggtcc gcgattcttt 580

<210> 6556

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-B2

<400> 6556

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ggcccccttg gggggccctt tctttttgga ataaaaaaag agggccccca cacaaggggt 120
ttttcaaggg ggggttttta aaaaaaaaaat tggttttttg ggacaatttt tttttttttt 180
ttgagaaagg ggccccccaa ggggttccac ccgccaagg agtaaaaaaa gcgggggggt 240
tgtggggggc ccccccaaaa ttt 263

<210> 6557

<211> 495

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-B3

<400> 6557

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tttttgaatt acaactaata agcaatctaa aagagggccc caccaatgat gtgttggttg 120
 taggaggccc ctcggtctgt caaagcaagt tggacaaagg gcaacaattg ttgtagttgt 180
 aaaagggttg cgggggttagc cccaaactgc tggtaaaaag gcaacaactg ttgctgtgtc 240
 aaaaaagaaa cacggtttgc tgcaactagc tggctaaatg ggagtagtat ttgctgtgtc 300
 aaataaacag cgggggttcag tgcggccaat tggttaaatg gaaaaagtgt ttgttgctta 360
 aagtaggcaa tacctaactg gctgaatggg aaaagtgtgt gctgcaaata agcagcaggg 420
 ttcaatgtaa acagttggtt gaatggaaaa aatgttggtg ctgaaagtag gaaaaagttt 480
 gccaaaactc ttggt 495

<210> 6558

<211> 533

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-B4

<400> 6558

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 ccaaggcaac aaaatgtgct actactcggg aggaagtgat tactatgctg atggcccaca 120
 actttcttaa acctgaacc cacggctgtt cctcctggca cgagccttct cgaacttcct 180
 tcccttgagg cgcacatatg gcttggtgtg gctgtgcggc actccaggag ccttgccgaa 240
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 tggagcacgg agagcaagct ggtcaaagt gaggcactcc ccaccagcat tgacaatcct 360
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 cctcttgta tctgtgactg tgccaacaat cacagcaatg ttctttttct ttccttccat 480
 gaacttgaca aggcgggggca tggagattgg tgggcgattg gttttgctca tga 533

<210> 6559

<211> 542

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-B5

<400> 6559

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 acacacgtcg gtatgagggc accattatcg agtacatctc atatgtaatc taaaagaggc 120
 acctccaaga tgggttgctg cctcgacaag acaggatgca tcaaagagaa ctgggtgtat 180
 ggcagcaatt gttgctgctg taggaaggcg gcgaccaatg ggtagccac taccaatgga 240
 ttaagtaact gttgtcgctg ttgtaggtac gcagcagagt tcgacagagt cagttgggtg 300
 aatggaagca gctgttgcaa gtaggcaaca gggtttgcca cagctagtgt agtcagagct 360
 ggtacaatct gttgcaacaa ttgttggtgc aggtatgtag gtgcattgcc cacaacgagc 420
 gggctagatg aaagcagttg ttgttggtgt acgtaggcgg cagggttcac catggctagt 480
 tgactgagcg ttggcaaaaa ctgttgtagc tgttggtgtt gctggtttgc aactacgttc 540
 gc 542

<210> 6560
 <211> 557
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-066-Q1-N6-B6

 <400> 6560

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 tagaactctg ctgggttgtt caaagcaagt tgggtgaatg gcagcaattg ttgcagttgt 180
 aagagggtgc cagcgttagg cgcaactgtg tggtagaacg gcaacaactg tggttgtgtc 240
 aagaaggtag cagggtcac accagctagc tggctgaatg gtagtagttg ttgctgctgt 300
 aaataagcag gagagttcaa tgctgctagt tgggtgaatg gaagaaattg ctgggggtag 360
 gcagcaggta gctggctgaa tggtagttgt tgttggtgca aataagaagc agagttcaat 420
 gaacctagtt ggttgaatgg aagaaactgc tgttgctgag agtaggcagc aaggtttgct 480
 agcacaagtt gttgtagttg ttgtgccctg atgttttgtg ccaataaatg caccaaaggt 540
 aactgttgta atagggc 557

<210> 6561
 <211> 511

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-066-Q1-N6-B7
 <400> 6561

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 gttggttgaa tggcagcaat tgttgagttg gtaggggggg gccagcgta ggcgcagcgt 180
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 gctggctgaa tggtagtagt tgttgctgct gtaaataagc aggagagttc aatgctgtca 300
 gttgggtgaa tggaagaaat tgctgggggt aggcagcaga tagctggctg aatggtagtt 360
 gttgttgttg caaataaaaa gcagagttca atgcagttag ttggttgaat ggaagaaact 420
 gctgttgctg agagtaggca gcaaggtttg ttagcacaag ttgttgttgt ttgttggtgc 480
 ccttatgttt tgggccaata aaagcacca a 511

<210> 6562
 <211> 526
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-066-Q1-N6-B8
 <400> 6562

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 ctcttaagtt acaactggct aagcactaca gtgactgagg ccctgtttgg aaacaccag 180
 tttttaagaa actggtttat agaaattgag gtggttccaa acatactagt ttatgactaa 240
 gtttatagaa attagattct cagttttctta aaaaccaaga agctggcctc tcctagctaa 300
 aatataaaaa ctggtttcta aaaaaccggg ttgcttccaa acagggcctt acaagaaaat 360
 tcagctatcg gttcaagggt ccacagctac taatcaaaaa ccaaagaaac caagctctgt 420
 tgccctttcc ttctcgaagg ttgtcgaata ttgatatatg attgtcacag gcagcagtat 480
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<210> 6563
<211> 557
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-B9

<400> 6563

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ttgggggcctt tgaacatcag tgatcaatgc agattattaa tttattggag cgctagactg 180
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cattacaacc ggggtaattt caccattgt tccgggtggc catacctcat ctgcagcatg 420
gaattctgac agactaatgc gtcgttcatg taacacaaag ttttctttca ccacaagatc 480
catgacagtt gctcgcgtaa tgcttgaag gcaatagtca gcatgagggg gcaatacaat 540
tccctttttg accataa 557

<210> 6564
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-C10

<400> 6564

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agtttgccga aacgataaac cacaatgctg ggggggagag agaagcatat ttgccttggt 180
tactctagca acacatgctt atagcttcac agattgatca aatagcagct atgctccatt 240
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caatgtgaac gacaatctcc ttccttactt tgggtcaaagc ttcgggaggg gagcaattgg 360
atgaatcacc ttcaatgttt gaaggagctt gagggcatcc aa 402

<210> 6565
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-C11

<400> 6565

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tgcggcacat ggcggggcac gttgttcac caaaacaaa gcgccttctt gaacgcaatc  420
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<210> 6566
 <211> 544
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-066-Q1-N6-C12

<400> 6566

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ccatcagacc tgcagctgta gattctgctt tgtaaattgga acctataaga gattgtatct  480
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cttt

544

<210> 6567
<211> 553
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-066-Q1-N6-C2

<400> 6567

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cccgaacgct cgacttcctg tcaagcggct cttaccatac caagggttaca cgatccatcg 240
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caatcctagc attcatgtca atgatacagt tccttatctt tnggttcctt cctattccaa 480
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ctcccatcat cac 553

<210> 6568
<211> 520
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-C3

<400> 6568

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ctgcctcgac aagacaggat tcatcaaaga gaactgggtt tatggcagca attgttgctg 180
ctgtaggaag gcggcgacca atgggttagc cactaccaat ggattaagta actgttgctg 240
ctgttgtagg tacgcagcag agtcgacag agtcagttgg ttgaatggaa gcagctgttg 300
caagtaggca acagggtttg ccacagctag ttgagtcaga gctggtacaa tctgttgcaa 360

caattgttgt tgcaggtatg taggtgcatt gccacagcg agcgggctag atgaaagcag 420
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<210> 6569

<211> 547

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-N6-C5

<400> 6569

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 gcaccaccaa tgggtgggcgg ttgcaataag ggggggggat gtcgtcaaag catgttggct 180
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 gaatggtagc aattgttgct gttgcaagaa ggcattaatg tttcccacaa cttgtgggta 300
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 gaatggcaga agctgttgtt gcagtaagaa ggcataaggg ctcccgacaa gttgggttaa 420
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 tgggagaaac tgttgttgct ggaggttaagc agcaagggttc gctgcaacta cttgattgat 540
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<210> 6570

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-C6

<400> 6570

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<210> 6571

<211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-066-Q1-N6-C9
 <400> 6571

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 ctggtgggggt tgtcaaagca agttggttga atggcagcaa ttgttgcagt tgtaagaggg 180
 tgccagcggt aggcgagcg tgcaggtaga acggcaacaa ctgttggtgt gtcaagaagg 240
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 cagcagagtt caatgctgcc agttggttga atggaagaaa ttgctggggg taggcagcag 360
 ctagctgact gaatggtagt tgttggtgca aataagcagc agagttcaat gcagccagtt 420
 ggttgaatgg aagaaactgc tgttgctg 448

<210> 6572
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-066-Q1-N6-D1
 <400> 6572

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 aaatctaaag gggggccccc ccaaggaggg gggggggggg gggcaaaaaa aaagcgaggt 180
 tcaaggaccc tagtgggggg aagggaaaaa actgctgttg ctgaaagaag gcaaaaaggt 240
 ttgctaacc aagtggggga agttgggggc ccctgaggtt ttgggccaat aaaggcccca 300
 agaggaaact gttgaaaaag ggctggtaat tgtgggggga acagggggga aaaaggaaaa 360
 aggccagttg gaattgctg gtggatcctg ggggggggga gaaatggggt tataacaata 420
 ccaaaaaccc ccctg 435

<210> 6573
 <211> 509
 <212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-066-Q1-N6-D10

<400> 6573

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gttcaagaca aaattacatg gggtattttgc tatgcggggg gggggggcact ttnaaataac 180
aaataacttga gaaagtaatg actaataaac ccgtccacac cacgctgcat acttttagaa 240
ttctgcgttg cagtcttggg gtaaaccaag ctacatagct taaggagtc tccaaaatcg 300
gttcaccatc caaaaaaaca ccggtaggca attgattaca gccaatgctg cagatgcatg 360
aagcaagcta cttaaaccat tttccaagat atatgggatg tgtgcaatga aaagtagaag 420
tgcccatcga ggtcggtagc gggataacct aaccgaacgt gctgttgatg acagatcacc 480
cccataaaca aaagatcctt tacaagggc 509

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<210> 6574
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-066-Q1-N6-D11

<400> 6574

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ggccccctcc ctcacccaaa aaatttgggg gggggggggg ggcaaaaacc catctaaaaa 180
agggccccc ccatgatgtg tttttgggag gagggccctc cgtctttcaa aacaagttgg 240
acaaagggcc acaatttttg tattttttaa agggttgccg ggttaccccc aaactgctgg 300
taaaaaggca gcaactgttg ctttttcaaa aagaaaaccc ggtttgctgc acctacctgg 360
ctaaatggga ataattttg ctgctgcaaa taaccgcgg gggtcacggc cccacattg 420
ttaaataaaa aaaatttttt 440

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<210> 6575
 <211> 407

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-066-Q1-N6-D12
 <400> 6575

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tattttgtgta aatacatgct tactgccgcg tccacccaaa gtcctagtgt taccgatgaa  120
taataactgt  tacacaaaca tgaaaatggg cggggggggg ggggttcttg ggttacgagc  180
aaggctgcac  tgtcctgttc gatatctgtt ttttgttcgc aatcaatcag gcgctcggag  240
ctgagctggg  tatcttgaat tgcttcttca cgtaatgtga tgcctctgaa tcatttctgt  300
gacacaggac  cctaaggagg gttttggagt ccgctccaaa tttgctcttg ccaccttgag  360
taacttctcg  taggtcatca atgagcacgc ggggtctcttg cttgatc   407
  
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<210> 6576
 <211> 543
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-066-Q1-N6-D2
 <400> 6576

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atcgaacacc cttgggagac caatatcaca ttagaatctg gaaatgtaac ttcttatttc   60
tggttggcca catacatcat ccaaaaaatt tattattgaa ttacaactaa taatcaatct  120
aaaagagggc accaccaatg atgtgttggt ggtaggaggc tgctgggttt gtcaaagcaa  180
gttggaacaaa gggcaacaat tgttgtagtt gtaagagggt tgcggggtta gccgcaaact  240
gcttgtagaa aggcagcaac tgttgctgtg tcaagaagga agcacgactt gctgcagcta  300
gctcgctaaa tggcagtagt atttgctgct gcaaataagc agcgggggttc agtgcggccca  360
attgggttaaa tggaagaagt tgttgttgct gagagtaggc agtagctagc tggctaaatg  420
gtaatagtgt ttgctgcaaa taagcagcag ggttcagtgt agacagttgg ttgaatggaa  480
gaaattgttg ttgctgagag tagggagaaa ggtttgccag aactacttgg ttgatcacia  540
gta   543
  
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<210> 6577
 <211> 559

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-066-Q1-N6-D3
 <400> 6577

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 acctaacagc tggagcattt ccaaaccgca gttcaagtat acagtaatca gtgtcaaaac 180
 aggctgggaa aaaacagcct aaactcacca gctgcccaacc ccctatccca ttcccaaaca 240
 tcatgaggaa acacaaatca catttatgat gtggaacaag cttcgagctt tgggaggacg 300
 ctgcgccatg catccgcaat gtcttttagct agcttagcct gacccttggc aaattcatgg 360
 aatgcgagtc caatatcagc tgtcttttgc tcctggaaac gagcaagctc ttcattcatt 420
 agtctaacta tgtgttcaaa cttcttagta gcctcctcac tgtctgcttt caactctcga 480
 aactcagatt ctgcttcggc atacttttca gggttcatga acttcaattt ttcaagatta 540
 agctctttat acttcctct 559

<210> 6578
 <211> 563
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-066-Q1-N6-D4
 <400> 6578

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 cacatatcag tatgagaact ttattattac agtataaagc ataaaaaat ctagaagatg 120
 gcaccaccaa tgggtgggctg ctgcaataag ggggggggggt tcgtcaaagc aagttgggta 180
 aatggcagca attgttggtt ttgtaagaag gcgacattgt ttgccacatc ctgtgggtag 240
 aatggtagca actgttgctg ttgcaagaag gcgttaaatgt ttcccacaac ctgtgggtaa 300
 aatggcagca attgttggtt ttgttgcaag aaagcagcaa tgtttgccac aacttgtaga 360
 tggaatggaa gcaactgttg ctgcagtaag aaggcagcag ggctcctgac aagttgggtg 420
 aatggtagta gctgttgctg ctgcaagtaa gcagcagggt tcacccagc tagttagttg 480
 aaatggaaga aattgttggt gctgggagta agcagcaagg ttcgctgcaa ctacttgatt 540

gattgttgga agcaactgtt gtt

563

<210> 6579

<211> 519

<212> DNA

<213> Zea mays

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<400> 6579

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aagaagtctg agcgcatgct catgagcgcc gaggagaagt tcccaggcaa ggtgcgcgcc 120
gtggtcaagt tcaacgcggc gctggcgcac cacatcatgg ccggcgcgga cgtgctcgcc 180
gtcaccagcc gcttcgagcc ctgcggcctc atccagctgc aggggatgcg atacggaacg 240
ccctgcgcct gcgcgtccac cggtggactc gtcgacacca tcatcgaagg caagaccggg 300
ttccacatgg gccgcctcag cgtcgactgt aacgtcgtgg agccggcgga cgtcaagaag 360
gtggccacca cattgcagcg cgccattcaa gtggtcggca cgccggcgta cgaggagatg 420
gtgaggaact gcatgatcca ggatctctcc tgggaagggcc ctgccaagaa ctgggagaac 480
gtgctgctca gcctcggggg cgccggcggc gagccaggg 519

<210> 6580

<211> 520

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-D6

<400> 6580

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tttttttttt tttttttttt ttccagaaaa aaaacttttt tttggacett taccctaaaa 120
aaaatcaaaa gggggggccc cccaaggggg gggggggggg ggaaccccg ggggtttgcc 180
aaaccagggg gggggaaggg caccaattgt ggcagttgaa agagggggcc cccgttaggc 240
ccaccgggct ggaaaaacgg caacaacggg ggggtgggtca aaaagggagc agggcccacc 300
ccacctacct ggctgaaggg aagaagttgt ggctgctgaa aaaaaccagg aaagtccaat 360
gctgctagtg ggtaaaaggg aaaaaattgc gggggggagg caacaggaac ctggctaaag 420

gggaattgtt gttgttgcaa aaaaaagca gagtccaagg accctagtgg gtggaaggga 480
 aaaaactgct gttgctaaaa gaaggcaaca aggtttgcta 520

<210> 6581
 <211> 530
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-D7

<400> 6581

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 attttggggg gggcccaaac ataatccaag aggggggggg ggggggttac aacaaaaaac 180
 caatttaaaa gggggccccc ccaaagaggg gttttgggaa gggggccgcg gggtttgga 240
 aagaaagggg gaaaaagggc aaaaattggt gaatttgaaa aaggggtggg gggttaggcg 300
 aaaactgggg gaaaaaaggg agaaattggg ggtgggtaaa aaaggaagac aggttggcgg 360
 aaactagcgg gctaaagggg agaagaattt gggggggaaa aaaaaaaggg ggggtcaggg 420
 ggggcaattg gtaaaaagag aaaaaaaggt ggtggccgaa agaaaggag gaaaatacga 480
 gggaaaaagg ggaaaagggg tgggggcgaa aaaacgggag gggtttaagg 530

<210> 6582
 <211> 544
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-D8

<400> 6582

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 accaatgatg ggttggttgg agaactgctc tggggggggc gaagcaagtt ggttgaatgg 180
 cagcaattgt tgcagttgta agagggtgcc agcggtaggc gcaacgtgct ggtagaacgg 240
 caacaactgt ggttgtgtca agaaggtagc agggctcaca ccagctagct ggctgaatgg 300
 tagtagttgt tgctgctgta aataagcagg agagttcaat gctgctagtt ggttgaatgg 360

aagaaattgc tgggggtagg cagcaggtag ctggctgaat ggtagttggt gttgttgcaa 420
 ataagaaaca gagttcaatg aacctagttg gttgaatgga agaaactgct gttgctgaga 480
 gtaggcagca aggtttgcta gcacaagttg ttgtagttgt tgtgccctga tgttttgtgc 540
 caat 544

<210> 6583

<211> 524

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-E1

<400> 6583

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 ccaacgatgg gttgctgcaa ggcagggttc atgaaagaga actggttgta tggcagcaat 180
 tgttgttgct gctgcaggaa ggtagcgacc aatggggttag ccactgccaa tggattaagt 240
 aactgttgct gctgttgtag gtaccagca gagtttgaca caaccagttg gttgaatgga 300
 agcaactggt gtaagtaggc agcagggttt gccacagcta gctgagtcag agctggtaca 360
 atttgttgca gcaactgttg ttgtaggtac ctaggtgcat tgcccaccgc gagcgggcta 420
 gatgaaagta gttgtaggta gacgggaggg ttcaccatgg ctagttgact gagcactggc 480
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<210> 6584

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-N6-E11

<400> 6584

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 atgtgttggt ggtaggaggc ttcttggtt gggggggggg ggggacaaag gcaacaattg 180

ttgtanttgt aagaggggttg cgggggttaac cccaaactgc ttgtaaaaag gcagcaactg 240
 ttgctgtgtc aaaaaggaag cagcacttgc tgcagctagc tcgctaaatg gcagtagtat 300
 ttgctgctgc aaataagcag cgggggttcag tgcggccaat tggttaaatg gaaaaagttt 360
 ttgttgctga gagtaggcag taactagctg gctaaatggg aatagttgtt gctgcaaata 420
 aacagcaagg gttcaatgta aaacagttgg tgtgaat 457

<210> 6585
 <211> 550
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-E2

<400> 6585

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 acaaggcagg gttcatcaaa gagaactggg tgtatggcag caattggttc tgctgtagga 180
 aggcagcgac caatgggtta gccaccgcta gtgggttaag taactgttgt cgctgttgta 240
 ggtacgcagc agagttcgac acagtcagtt ggttgaatgg aagcagctgt tgcaagtagg 300
 cagcagggtt tgccacagct agctgagtc gagctggtac aatctgttgc agcaactgtt 360
 gttgcaggta tgtaggtgca ttaaccacag cgagagggt agatgaaatc agttgttgct 420
 gttgtaggta ggcggcaggg ttcacatgg ctagttgact gagcgctggg agaaactgtt 480
 gcaattgttg ttgttggttg gtatgcaact atgtttgcca gagcaagtgg ggttggaatgc 540
 aagcaactgc 550

<210> 6586
 <211> 514
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-E3

<400> 6586

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agttggttga atggcagcaa ttgttgcagt tgtaagaggg tgccagcgtt aggcatagcg 180
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 tgttgttgca aataagcagc agagttcaat gcagccagtt ggttgaatgg aagaaactga 420
 tgttgctgag agtatgcagc aaggtttgct agcacaagtt gttgtagttg ttgtgccctg 480
 atgttttgtg ccaccaaatg gaccaaaggt aact 514

<210> 6587

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-E4

<400> 6587

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 aaagtgtgcc ccactgatct gggccccccc acgggggggc gccttccttg gggggggcca 180
 ggatcataaa accctgggtt gcccaaggca ccaactgtta tcaaatgtgg agggcctctg 240
 ggttagtcca ataccccttg ccaaaaagaa caaactgtga acagggt 287

<210> 6588

<211> 551

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-N6-E5

<400> 6588

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 aacgctgttg ggtttgtcaa agcaagttgg ttgaatggca gcaattgttg cagttgtaag 180
 aggggtgccag cgttaggcgc agcgtgcagg tagaacggca acaactgttg ttgtgtcaag 240
 aaggcaacag ggctcacatc agctagctgg ctgaatggtg gtagctgttg ctgttgtaaa 300

taagcagcag agttcaatgc tgccagttgg ttgaatggaa gaaattgctg ggggtaggca 360
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agttgggtga atggaagaaa ctgctgttgc tgagagtagg cagcaagggt tcctagcaca 480
agttgttgta gttgttgtgc cttgatgttt tgtgccaaca aatgcaccaa aggtaactgc 540
tgtaataagg c 551

<210> 6589

<211> 514

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-E6

<400> 6589

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tgttgggttt gtcaaaacaa gttgggtgaa tggcagcaat tgttgcagtt gtaaaagggt 180
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taactgactg aatggtagtt gttgttgcaa ataaacagca gagttcaatg cagccagttg 420
gttgaatgga aaaaactgct gttgctgaaa gtaggcaaca aggtttccta gcacaagttg 480
ttgtagttgt tgtgccttga tgttttgggc caac 514

<210> 6590

<211> 528

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-E9

<400> 6590

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aagagggcac caccaatgat ggggtgttgg ggggaaggct ggtgggtttg tcaaaacaag 180

ttggttgaat ggcagcaatt gttgcagttg taaaagggg ccagcgtag gcgcaacgtg 240
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 ctggctgaat gggagtagtt gttgctgctg taaataagca ggagagttca aagctgtcag 360
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 ttgttgttgc aaataaaaag cagagttcaa tgcagctagt tggttgaatg gaaaaaactg 480
 ttgttgtgta gagtaggcaa caagggttgc tagcacaagt tgtttag 528

<210> 6591

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-F10

<400> 6591

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 aaaccgggcc cgaaaaaaa aaaaatgggg gggggggggg gggttacatt caacaaaaaa 180
 aagaaaaaaa aggaggtaaa aaaaaagcc cctattgacc taaaatttga agataaaaca 240
 ccttaaaactt atctttacca agtccctttt aaaaatattt ccctggcggg ttttttggtt 300
 ttaaatccaa aaaaaaaaa aggggaattt ttttttatag ggcaaccttt ttggtaaaaa 360
 aaaattttta agttaaaatt ctaaaaa 387

<210> 6592

<211> 543

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-N6-F11

<400> 6592

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 tccctgaaac ctaaacaccg gataagtatt cngtgcaccg gggggggggg cgggtttact 180

tccgcgacat gctgccgagc aggtttactt ccgcgacatg cagattacag cgacatcgtg 240
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 ctattgttat ctcgaggggtt agcttctgct ttcctctcaa ctccaaaagt gaaattgggg 360
 gggcgatcat ttgggttgaa tcgctcgaat atggatggca tggtcgtttg gttgaacaca 420
 ggcgtttgca tgtcacctgc tggttttgta taaccaaadc caagagaagc aaatgattca 480
 atgggaaccc aaggttggag ttactgggtc ccgaaaagct tcaactcata ctcccaaaag 540
 ctc 543

<210> 6593

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-F12

<400> 6593

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 cccaacaaac ggcggggggc aatcctatta tggtttgaca tggactcctc cttattataa 120
 acaagggtccc ctatggccac ggatctcccc acatgaactg gcacaacatc ataaatggca 180
 gccacacagg gggggggggg ctgcattaat acaacgaact acgcgccgat atgcggagct 240
 gtgatccaca acacaccact aacggacata gctttacttc tcaaactgaa agccctaadc 300
 cttgtacagg tcacgtctct tgacaatgtg gatgacgcac atagactttt gctgtgagac 360
 acatgtatcc acataccctt cctcctacta tccgagctca aagaatgacc catccaacct 420
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<210> 6594

<211> 496

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-F2

<400> 6594

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gcccgtgggt ctgtcaaagc aagttggaca aagggcaaca attgttgtag ttgtaagagg 180
 gttgcgggggt tagccgcaaa ctgctggtag aaaggcagca actgttgctg tgtcaagaag 240
 gaagcacgggt ttgctgcagc tagctggcta aatggtagta gtatttgctg ctgcaaataa 300
 gcagcgggggt tcagtgcggc caattggtta aatggaagaa gttgttggtg ctgagagtag 360
 gcagtagcta gctggctaaa tggtaatagt tgttgctgca aataagcagc agggttcagt 420
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<210> 6595

<211> 527

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-F3

<400> 6595

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 tgccaccttc ccgacctgag gtccacatat gtttatacgc atttattctc caactcgatg 180
 aatgagagtt tatttactaa tggatagtat atagcatgtt tatctaccaa tgaactagga 240
 ctgaatcatg tattaagtat taagtttact gcatattgta tcatccggag cgactcttca 300
 gctatcgagc cactttgtgt gctcgacggg gagagacgga tgcctcgctc ttctttgatc 360
 cttcgggtct cctagcccaa gctggagcct ggtcagggtc ataacgataa tcataaaaga 420
 gttcctcgct agcctcaata tgctccttcg catatatacc aacccgatgg tcgccagcca 480
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<210> 6596

<211> 546

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-F4

<400> 6596

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acaaaaaactt tattattgaa ctataactca taagaaacta aaagaggcac caccaatgat 120
 gggttgttgg tagaacgctg ctgggtttgt caaagcaagg tggttgaatg gcagcaattg 180
 ttgcagttgt aagaggggtgc cagcgttagg cgcagcgtgc tggtagaacg gcaacaactg 240
 tggttgtatc aagaaggtag cagggctcac accagctagc tggctgaatg gtagtagttg 300
 ttgctgctgt aaataagcag gagagttcaa tgctgccagt tggttgaatg gaagaaattg 360
 ctgggggtag gcagcaggta gctggctgaa tggtagttgt tgttgttgca aataagaagc 420
 agagttcaat gcagctagtt ggttgaatgg aagaaactgc tgttgctgag agtaggcagc 480
 aaggtttgct agcacaagtt gttggagatg ttgtgccctg atgttttggg gccaaaaaag 540
 caccaa 546

<210> 6597
 <211> 469
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-066-Q1-N6-F5
 <400> 6597

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 ggcctttttt tttggggggg gcccccaacc caaggagag aggggggtgtt tttggccctt 180
 acccccaaaaa aaaataaaaa ggggggcccc cccaaggggg ggggggggga aaaaaccggg 240
 ggggtttaaa aaaaaagggg gggaaaaggg aaaaatttgg gcgctttgaa aaagggggccc 300
 cgtttaggcc caacccccgg ggaaaaacca aaaaaacggg ggggtgttaa aaagggggga 360
 ggggcaacac cccttatggg gggaaaaggg agaaaatggt ggcttcggaa aaaaccggg 420
 aaggtaaaag ccctctaggt gggtgaaaag aaaaaaaaaat gggggggggg 469

<210> 6598
 <211> 561
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-066-Q1-N6-F7
 <400> 6598

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 catcatccaa aaaacttcat tattgaacta taactcataa gcaatctaaa agaggcacca 120
 ccaatgatgg gttgttggtg gaacactggg ggggggggga aagcaagttg gttgaatggc 180
 agcaattgtt gcagttgtaa gagggtgcca gcgttaggca tagcgtgcag gtagaacggc 240
 aacaactgtt gttgtgtcaa gaaggcagca gggctcacat cagctagctg gctgaatggt 300
 agtagttgtt gctgctgtaa ataagcagca gagttcaatg ctgctagttg gttgaatgga 360
 agaaattgct gggggtaggc agcaactagc tggctgaatg gtaattgttg ttgcaaataa 420
 gcagcagagt tcaatgcagc cagttgggtg aatggaagaa actgatgttg ctgagagtat 480
 tcagcaaggt ttgctagcac aagttgggtg agttgtgtg ccctgatgtt ttgtgccacc 540
 aaagggacca aggtaactgc t 561

<210> 6599
 <211> 548
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-066-Q1-N6-F9
 <400> 6599

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 gccttttttg gttaaccccc ttttaggggg gggggggggg gggaaccca attttttaat 180
 tgcaaacccc cctaattggc ttgggtggggc aggggttttt ttgggggggtt gggggggccc 240
 acccccccat tggggggggg gtttgggctg ctttcaaaat tgcccccccc ctttgggggg 300
 cttgggggga cccacaaaac ccacatgggg gggggggggg ccccccccg attttgggtt 360
 gaaccctttt gtaaattgct tggggaatgt tttgggggta aatttgccta aaaacaaaaa 420
 accattgttg gtggaaaacc tgggagctac ttgggtgttt aaaacctgat tggggaaaaa 480
 gccttcccaa aggggtggcc tgctccctta ggaattcaag acaatttttt aaatttgggc 540
 ccccggtt 548

<210> 6600
 <211> 551
 <212> DNA

<213> Zea mays
<223> Clone ID: LIB3061-066-Q1-N6-G1
<400> 6600

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atccaaaaaa cttcattatt gaactataac tcataagcaa tctaaaagag gcaccaccaa 120
tgatggggttg ttggtagaac actgttgggt ttgtcaaagc aagttggttg aatggcagca 180
attgttgtag ttgtaagagg gtgccagcgt taggcatagc gtgcaggtag aacggcaaca 240
actgttgttg tgtcaagaag gcagcagggc tcacatcagc tagctggctg aatggtagta 300
gttgttgctg ctgtaaataa gcagcagagt tcaatgctgc tagttggttg aatggaagaa 360
attgctgggg gtaggcagca actagctggc tgaatggtaa ttgttggtgc aaataagcag 420
cagagttcaa tgcagccagt tggttgaatg gaagaaactg atgttgctga gagtatgcag 480
caaggtttgc tagcaccaag ttgtgtagtt gttgtgccct gatggtttgt gccaccaa 540
ggaccaaag t 551

<210> 6601
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-G11
<400> 6601

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tttttttttt tttttttttt tttttttttt tttttttttt ttttttttag ggaaaaaaat 120
taaaaaaaat tttttttggg ggggggggag aaaacatccc ctttttaagc cccctttttt 180
cagccccttt aattttaaat taaaaaaagg ccccccaaa aatgggtttt tccccccaca 240
gagggggggt aataaaaaaa aacctttttt ttgggaaaaa tttttttttt ttaaaaagag 300
ccccaccaa aggggttacc ccccttatgg gataaaaaaa cttttttccc ttttttagtt 360
ccccaaacaa atttccaaca aaccatttgt taaaataaat tattttttta aaaaaaccaa 420
aagttttttc cacatttttt ttt 443

<210> 6602

<211> 518
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-066-Q1-N6-G12
 <400> 6602

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 tgatggggttg ttggtagaac actggtgggg ggggggaagc aagttggttg aatggcagca 180
 attgttgcag ttgtaagagg gtgccagcgt taggcatagc gtgcaggtag aacggcaaca 240
 actgttgttg tgtcaagaag gcagcagggc tcacatcagc tagctggctg aatggtagta 300
 gttgttgctg ctgtaaataa gcagcagagt tcaatgctgc tagttggttg aatggaagaa 360
 attgctgggg gtaggcagca actagctggc tgaatggtaa ttgttgttgc aaataagcag 420
 cagagttcaa tgcagccagt tggttgaatg gaagaaactg atgttgctga gagtatgcag 480
 caagggttgc tagcacaagt tgttgtaatt gttgtgcc 518

<210> 6603
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-066-Q1-N6-G2
 <400> 6603

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 cttttactcc taaaaaatct aaaaggaggg ccccccaat gatgggttgt tggtaaaacg 120
 ctgctgggtt tgtcaaaaca agttggttga atgggaacaa ttgttgcagt tgtaaaaggg 180
 ggccagcgtt aggccagcgt tgctggtaaa accgcaacaa ctgggggttgt attaaaaagg 240
 tagcagggct cacaccaact agctggctga atgggaaaaa ttgttgctgc tgtaaaataa 300
 caggagagtt caatgctccc agttggttga atgggaaaaa ttgctggggg taggcaacaa 360
 gtaactggct gaatgggagt tgttgttgtt gcaaaataaa aacagagttc aatgcaactt 420
 gttggttgaa aggaaaaa 438

<210> 6604

<211> 526
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-G3

<400> 6604

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tccaggatcc acaacatgtc tagcgtccag gagttcagac agcacagaca atttgaacgt 180
gttcaagatg caatctatca gacaccaaag gtccaccga gtgtccagac tcaccgccct 240
cctttctgca tcttgaacct tgacacgggc cttgaagaag cacaagtacc aggttttgcc 300
aacgaactag ccacagaagg ttcaatggtg gaaacattgt cgtcgtgctc aatgatagat 360
cctgtaaagg cctttcgtcc acttgatatt atctttctgt cagagataa agcgggggtct 420
gaagaattct tgagcacagg atcagactgt atagaatcca ctagcaaggg aggagacttt 480
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<210> 6605
<211> 386
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-066-Q1-N6-G4

<400> 6605

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ttttaacgag gaaaaactca atcaatatat tgattatttt taggaaacac acctcgggtt 120
gagggccccc ttatcgagga catcttatat ggagggggga gaggggggac ctccaacgag 180
ggggtggtgg cttnacaaga caggattcat caaaaagaac tgggtgtatg ggaacaattg 240
ttgttggtgt aggaaggggg ggaccaatgg ggtagccctt accaatgggt taagtaactg 300
gtgtcgtgtg tgtagggggc cagaaaagtt taacaaagtc aattggttga aaggaaacaa 360
cttttgcaag taaggcaaaa aggggtt 386

<210> 6606
<211> 438

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-G5

<400> 6606

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gggaagggaa gataatccac ttttattcac caattgttcg ggctgccct gaatttgttt 120
cctaccatcg agataatcca tatttattca caaattattg gggcctgcc aacctcagcag 180
cgcttcatga tttttttcct acgatcgccc gatcttttcc accaggcgtg tttcgatctc 240
cattctcttc ctcatcaggg ggggggtactt ttggaggagc tcccgggcct gctccttgtc 300
gccggccggg actgccaaact ttaagccaag ggaggggctt tccaggttgc cctggtagacag 360
gcaccaaagt gggacgaaac taccttgccg gttgcataac caccctggg gaggttttag 420
cgctgcgccc agcgatgc 438

<210> 6607
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-G6

<400> 6607

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agacaaaaaa tttattattg aactataact cataagaaac taaaagaggc accaccaatg 120
atgggttggt ggtagaacgc tgctgggggt ggcaaagcaa gttggttgaa tggcagcaat 180
tgttgacagt gtaagagggt gccagcgta ggcgcagcgt gctggtagaa cggcaacaac 240
tgtggttgta tcaagaagg agcagggctc acaccagcta gctggctgaa tggtagtagt 300
tgttgctgct gtaaataagc aggagagttc aatgctgcca gttggttgaa tggaagaaat 360
tgctgggggt aggcagcagg tagctggctg aatggtagtt gttgttggtg caaataaaaa 420
gcagagttca atgcagctag ttggttgaat ggaagaaact gctgttg 467

<210> 6608
<211> 525
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-066-Q1-N6-G7

<400> 6608

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aacacacgtc ggtatgaggg caccattatc gagtacatct catatgtaat ctaaaagagg 120
cacctccaac gatgggttgc tgccctcgaca agacgggagt catcaaagag aactgggttg 180
atggcagcaa ttgttgctgc tgttaggaagg cggcgaccaa tgggttagcc actaccaatg 240
gattaagtaa ctgttgctgc tgttgtaggt acgcagcaga gttcgacaga gtcagttggt 300
tgaatggaag cagctgttgc aagtaggcaa cagggtttgc cacagctagt tgagtcagag 360
ctggtacaat ctgttgcaac aattgttggt gcaggtatgt aggtgcattg cccacagcga 420
gcgggctaga tgaaagcaat tgttggtgtt gtacgtaggc gggaagggtc accatgncta 480
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<210> 6609
<211> 512
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-066-Q1-N6-G8

<400> 6609

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ctccaacgat gggttgctgc aaggcagggt tcatgagggg gaactggttg tatggcagca 180
attgttggtg ctgctgcagg aaggtagcga ccaatgggtt agccactgcc aatggattaa 240
gtaactgttg tcgctgttgt aggtacgcag cagagtttga cacagccagt tggttgaatg 300
gaagcaactg ttgtaagtag gcagcagggt ttgccacagc tagctgagtc agagctggta 360
caatttggtg cagcaactgt tgttgtaggt acgtaggtgc attgcccacc gcgagcgggc 420
tanatgaaag tagttgtagg tagacggcag ggttcacat ggctagttga ctgagcactg 480
gcataaactg ttgcagctgt tgggtgttgc gtg 512

<210> 6610
<211> 573
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-G9

<400> 6610

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tgattatatt taggaaacac atgccgcttt gagggcacca ttatcgagta catctcatat 120
gtaatctaaa aaaggcacca ccaaccatgg gttgctgcca cggcagggga gggttcatca 180
aaaagaactg gttgtatggc agcaattggt gctgctgtag gaaggcagcg accaatgggt 240
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acacaatcag ttggttgaat ggaagtagtt gttgcaagta ggcagcaggg tttgccacac 360
ctagctgagt aagagctggt acaatttggt gcagcaactg ttgttgcaac aactgttggt 420
gcaggtatgt aggtgcattg cccatagcga gcgggctaga tgaaaaaagt tgttgctgtt 480
gtaggtaggc gatagggttc accatggcta gttgactgag cgctggtaga aactgttgca 540
actgttggtg ttgttggtat gcagctacct ttg 573

<210> 6611
<211> 597
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-066-Q1-N6-H10

<400> 6611

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ttgagtagaa cacatcaata gaaagaaaaa gattaacacc acataatctc actaagaatg 180
catgccacat gggggggggg ggggggggtac canctctcta natataatcn acaaaacaca 240
ncanatggcc aattgggtac agctacaaac agagtacaag agctaactcg aacaccattt 300
ttcatttctt cggctcttaga tgattgaagt cgagcttttc acgcttggtg gacttggtgtg 360
atccgcgacc attgctttgt gaagatgacc taccgccaac attgggtttt gggtccttgt 420

aagatgccgg tggttccata tcaagggggg gtccttcct tttcagttca tttaggagat 480
atgctttctg aactgggaat gccaaaatgt ctacatcttg gggctggaac ttcattccct 540
ctgctggagt ttgcattgtc ttggtcacag ttactggggg gaagctgaat ctgtttg 597

<210> 6612

<211> 577

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-066-Q1-N6-H11

<400> 6612

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gaaacacatg ccggaatgag ggcaccatta tcgagtacat ctcatatgta atctaaaaga 120
ggcacctcca acgatgggtt gctgcctcna caaggggggg ggggggaaan anaactgggtt 180
gtatggcagc aattgttgct gctgtaggaa ggcagcgacc aatgggtag cactgctag 240
tggattaagt aactgttgct gctgtttag gtaccagca gagttcgaca tagtcagttg 300
gttgaatgga agcagctgtt gcaagtaggc agcagggtt gccacaacta gctgagtcag 360
agctgttaca atctgttgca acaattgttg ttgcaggtat gtaggtgcat tggccacagc 420
gagccggcta aatgaaagca gttgttgctg ttgtaggtag gcggcagggt tcaccatggc 480
tagttgactg agccctggca gaaactgttg cagctgttgt tgtggctggg ttgcaactac 540
ctttgccaga acaagtgggt ttgatgcaag caactgc 577

<210> 6613

<211> 584

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-H12

<400> 6613

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caaacatcag acaaaaaact ttattattga actataactc ataagaaact aaaaggggca 120
ccaccaatga tgggttggtt gtaaaacgct ggggttggtt gggaagcaag ttggttgaat 180
ggcagcaatt gttgcagttg taagagggtg ccagcgtag gcgcagcgtg ctggtagaac 240

ggcaacaact gtggttgat caagaaggta gcagggctca caccagctag ctggctgaat 300
 ggtagtagtt gttgctgctg taaataagca ggagagttca atgctgccag ttggttgaat 360
 ggaaaaaatt gctgggggta ggcagcaggt agctggctga atggtagttg ttgttgttgc 420
 aaataaaaag cagagttcaa tgcagctagt tgggtgaatg gaagaaactg ctgttgcctga 480
 gagtaggcag caaggtttgc tagcacaagt tgttgtagtt gttgtgccct gatgttttgt 540
 gccataaat gcaccaaagg taactgatgt aatagggtg atga 584

<210> 6614

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-H4

<400> 6614

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 tttttttttt tttttaata tttttttttt tttttttttt ttttttttaa aaaaatttat 120
 attaataaat aataaatttt aaaattaggg gggggggggg ggtatatata tttattttta 180
 agttttttat tttttttggg taatttttgg taaaaaaaa aaagaaaagg gagaagaatt 240
 tagaaaaaaaa agagatgaga aaaaaaggg agaaagtaaa aaaaaattaa gtaaaaaaaaa 300
 aaaaaaata aagagttgtg gtatggagat tttgtgagta aaagaatgga agagaaagaa 360
 attatgagaa ggaataagat aaagtgaata aaggaaaaag aagtatag 408

<210> 6615

<211> 568

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-H5

<400> 6615

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 tatcagcaaa aaacttttat tattgaacta taactcataa gcaatctaaa gggggcacca 120
 ccaatgatgg gttgttggtg gaacactggt ggggtgggga aagcaagttg gtcgaatggc 180
 agcaattggt gcagttgtaa gaggtgccca acgttaggcg cagtgtgcag gtagaacggc 240

aacaaatgtt gctgtgtcaa gaaggcagca gggctcacag cagctagctg gctgaatggt 300
 agtagttgtt gttgttgtac ataagcatga gagttcaatg ctgccagttg gttgaatgga 360
 agaaattgcc gggggtaggc agcagctagc tggctgaatg gtagtagttg ttgttgctgc 420
 aaataagcag cagagttcaa tgcagctagt tggttgaatg gcagaaactg ttgttgctga 480
 gagtaggcag caaggtttgc tagcacgagt tgttgtagtt gttgtgccct ggtgttttgt 540
 gccaacaaat gcaccaaagg taactgct 568

<210> 6616

<211> 574

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-H6

<400> 6616

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 gataaaaaac ttattatttg aactataact cataagaaac taaagggggc accaccaatg 120
 atgggttggtt ggtagaacac tgctggggtt ggcgaagcaa gttggttgaa tggcagcaat 180
 tgttgcagtt gtaagagggt gccagcgta ggcgcaacgt gctggtagaa cggcaacaac 240
 tgtggttggtg tcaagaagggt agcagggtc acaccagcta gctggctgaa tggtagtagt 300
 tgttgctgct gtaaataagc aggagagttc aatgctgcta gttggttgaa tggaagaaat 360
 tgctgggggt aggcagcagg tagctggctg aatggtagtt gttgttggtg caaataagaa 420
 gcagagttca atgaacctag ttggttgaat ggaagaaact gctgttgctg agagtaggca 480
 gcaaggtttg ctagcacaag ttgttgtagt tgttggtccc tgatgttttg tgccaataaa 540
 tgacacaaag gtaactgttg taatagggt gatg 574

<210> 6617

<211> 542

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-066-Q1-N6-H7

<400> 6617

gcggtgtgtg ggggtgggtt aaatcaacaa agaatacat atacactctt atattaaccg 60

gagaccagat catccacgca taacacaatc gtgttaaggc caagacggcc aaataagcat 120
gtccggcaaa gactcgagtg aaaactgcgt acaggggggc cggggggggg tcaaagttaa 180
aaaagaattg aacattctac tgcaatcaca cgtgtgctgc tgcggttgta cattttacat 240
acattccaga tgtagctgtc acaagccaat catttccatg cgaccgagtc gatctcattc 300
cttgagatt tgtacaggtc tagccttttg accaaggcat ccctcttctc catcaaagcg 360
ggggcctcat ccaacatcgc gtcagctgt ttcttctct tgcttccac atgagcatag 420
aaacggttaa gcaaatttct ttttgcttct ttcacttggc aatgcacgat gggtttcgga 480
accgtgttgc tcagagtctc acaggacat gttaataata gatgacacat tcgatccgat 540
tc 542

<210> 6618
<211> 540
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-066-Q1-N6-H9
<400> 6618

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atattgatta tttctaggaa acacatgtcg gtatgagggc accattgtcg agtacatctc 120
atatgtaatc taaaaaatgg cacctccaac gagggggggg gggaaggcag ggttcatcaa 180
agagaactgg ttgtatggca gcaattgttg ttgctgctgc aggaaggtag cgaccaatgg 240
gttagccact gccaatggat taagtaactg ttgtcgctgt tgtaggtacc cagcagagtt 300
tgacacaacc agttggttga atggaagcaa ctgttgtaag taggcagcag ggtttgccac 360
agctagctga gtcagagctg gtacaatttg ttgcagcaac tgttggtgta ggtacctagg 420
tgcattgccc accgcgagcg ggctaaatga aagtagttgt aggtagacgg cagggttcac 480
catggctagt tgactgagca ctggcataaa ctgttgacgc tgttggtggt gctgggtatgc 540

<210> 6619
<211> 597
<212> DNA
<213> Zea mays
<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-A1

<400> 6619

cccagcgtcc gcagccccctg ttgttgagtt ttatgcaaac tggatatgaag tctgcaggga 60
actagctcta gatatctaca aagctgaaca acaatacaag tctgcaggga actagactct 120
gagaacatgt tgctgatgcg gagagcattg tagccaaggg cataagagat ggtgcaattg 180
atgccaccat agatcaagca aatggctgga tggatatgga ggaaactggt gatgtctact 240
ctacaaatga gccatagatc atacaaatga gcccttgatg ccaccaggga ttgggggtttt 300
gcagagcctg cgatttatgt gagttaacat atcgatcttg aattcacatc acgggaagac 360
acgtggatatg ggagttgggc gcaagctcaa gagccaccgc aggaaccaga ggtgggctga 420
caaagcatac aaaaagccac ttgggcaatg agtggaaaaa accttttgct ggatcatctc 480
acgctaaggg catcattctg gagaaaattg gtattgaggc caagcagcca aattcggcca 540
tccgtaagtg tgcncctgtg tcagctggtg aaggatggaa agaagattgc tgccttt 597

<210> 6620

<211> 581

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-K6-A10

<400> 6620

gggggggggg agggagggct ggggaaacaa aaaactgttt atgttggtggt gccaatgtgg 60
cctgagggtg ttccagaagt gcttccttc aggcaatcct tgactggcaa aggagaacaa 120
tggatatgat gtacactgac atcacacaag ctctcgaagc gcggggggaa tccaaacaaa 180
ccccaaggac tatctcactt tcttctgctt aggtaacctg gaggtgaagc aggagggaga 240
atatcaacct gaggaacacc cagaacctgg cactgattac atccgggctc aagaggctag 300
gaggtttatg atctatgttc atgccaaaat gatgatagtg gacgatgaat acatcatcat 360
tgggtccgcc aacatcaacc agagggtccat ggacggtgcc agggactctg agatcgccat 420
gggcgcgtac cagccgtacc acctggcgac taggcagcct gcccggtggcc agatccatgg 480
cttcgggatg tctcttttgg acgaacacct ggggatgctg gacgacgtct tccatcgccc 540
cgagagcgta gagtgcgtgc agaaggtgaa caagatcgcc g 581

<210> 6621
<211> 574
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-K6-A11

<400> 6621

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cacatgttgc ttcagttcag attggcttat gttgcaccag agtcactagt ggtgggagct 120
ggagacttgg ttgacgaggg gggggggggg ggctatccat tattttcgtg gttacttttt 180
acttgatttc tttgatgtgc ttccactccc tcaggtgatg atactgctag tagttcctaa 240
agttgggtta tctgctgcaa actatgctaa gaatttattg cgtgtcactg ttctttctca 300
atatgtgccc cgtatcatca gattcgtacc acttcttgat ggtcagtcca ccaatggatt 360
catatttgag tcagcatggg ctaattttgt gatcaacctt ctaatgttta ttttggcggg 420
acatgtggtt ggttcatggt ggtatctctt tggcttacag agggtttaacc aatgtctacg 480
agatgcttgt tctatatcga ccattccata ttgtgattct tttatagact gtggacgtgg 540
cattgggagt ggactgtaca gacagcagtg gtcc 574

<210> 6622
<211> 613
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-A12

<400> 6622

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aactacaagt gctgctacng cgaccatttt cccgcaatgc tcacaagctc ctatagcttc 120
cctttctccc ccgtacctct caccagcggg gtcttctggt tgtgaaaacc caattcttca 180
accctggggg gggggggggg caatgcgcgc tggcatctta cctttatcac ccttgttcct 240
ccaacaatca tcagccctat tacagcagtt acctttggtg catttattgg cacaaaacat 300
cagggcacaa caactacaac aacttgtgct agcaaacctt gctgcctact ctcagcaaca 360
gcagtttctt ccattcaacc aactagctgc attgaactct gcttcttatt tgcaacaaca 420

acaactacca ttcagccagc tacctgttgc ctacccccaa caatttcttc cattcaacca 480
 actggcagca ttgaactctc ctgcttattt acagcagcaa caactactac cattcagcca 540
 gctagctggt gtgagccctg ctaccttctt gacacaacca cagttgttgc cgttctacca 600
 gcacgctgcg cct 613

<210> 6623
 <211> 612
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-K6-A2

<400> 6623

ttcttgcct ttttgtgagc gcaacaaagc gttcattatt ccacaatgct cacttgctcc 60
 tagtgccatt attccacagt tcctcccacc agttacttca atgggcttcg aacacctagc 120
 tgtgcaagcc aacatgcaac aacaagcgct tgcggcgagc gtcttacaac aaccaattgc 180
 ccaattgcaa caacaatcct tgccacatct aacaatacaa gccatcacia cgcaacagca 240
 acaacagttc ctaccagcac tgagccacct agccatggtg aaccctgccg cctacttgca 300
 agagcagctg cttgcatcca acccacttgc tctggcgaac gtagttgcaa accagcaaca 360
 acaacagcta caacagtttc tgccaacgct cagtcaacta gccatggtga accctgccgc 420
 ctacgtacaa caacaacaac tgctttcatc tagcccgtc gctgtgggca atgcacctac 480
 atacctgcaa caacaattgt tgcaacagat tgtaccagct ctgactcaac tagctgtggc 540
 aaaccctgtt gcctacttgc aacagctgct tccattcaac caactgactc tgtcgaactc 600
 tgctgcgtac ct 612

<210> 6624
 <211> 609
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-A3

<400> 6624

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gatattttcc ctccttatgc tccttgctct ttctacatgt gttgctaacg cgacaatttt 120
ccctcaatgc tcacaagctc ctatagcttc ccttcttccc ccataccttc catcaattat 180
agcttcagta tgtgaaaacc cagctcttca accatatagg cttcaacaag caatcgcagc 240
aagcaacata cctttatcgc ccttggtggt tcaacaatca ccagccctat ctttggtgca 300
gtcattggta caaaccatca gggcacaaca gctgcagcaa ctctgtctac ctgtgatcaa 360
ccaagtagct ctggcaaacc tttctcccta ctctcagcaa caacaatttc ttccattcaa 420
ccaactgtct aactgaacc ctgctgctta tttgcagcaa caactattac catttagcca 480
gctagctact gcctactctc agcaacaaca acttcttcca ttttaaccaat tggcgcgact 540
gaaccccgct gcttatttgc agcagcaaat actactgcca tttagcgagc tagctgcagc 600
aagtcgtgc 609

<210> 6625
<211> 599
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-K6-A5
<400> 6625

ggnaaaaaag gtaccatgaa tcgtgggggg ggggggttca tggcattgtg ttccactggc 60
tgtgcgtgaa ttgagtactt gatgaagaaa tctgtctttt ggtggcgcag aggataaaat 120
atgggggtggt aaggatgagg gacctggcaa tggatgtctt gacctgggac aggttctacc 180
tgaggggtcg gctgcagaaa ccgggtccatg ttcttggtga caactgggat ataaggaagg 240
tcaactcaat taacctagaa atggcaactt cagcttctct actcctttta ccagcggagt 300
tcacggagta cgacctatat gctcaaactc gcagtctatc atatatgggt gatttgagaa 360
tgctgtttgc ggaagacaaa gataagggtga agaagattgt tgagggtagt tttcagtcgt 420
tccaattgat gtacagcccc ctcttgcaag agtatattgc tgaaggccta ttgaagacat 480
catcccatgg acaatataaa actttccggc aggattgcgg tccatctaca acaaatgaac 540
tgttctctgt tcttccgtgg acgatccaaa gccaaatgca aggaaggcac acattgcac 599

<210> 6626
<211> 450

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-067-Q1-K6-A6
 <400> 6626

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 ccattcagcc agctagctac tgcctactct cagcaacaac aacttcttcc atttaaccaa 120
 ttggccgcac tgaaccccg c tgcttatttg cagcagcaaa tactactacc atttagccag 180
 ctagctgcag caaacctg c gtccttcttg acacagcaac agttgctgcc tttctaccag 240
 cagtttgogg ctaaccccg c aaccctctta caactacaac aattggtgcc ctttgtccaa 300
 cttgctttga cagaccgagc gggctcctac caacaacaca tcattggtgg tgccctcttt 360
 tagattgctt attagttgta attcaataat aaagtttttt ggatgatgta tgtggccaac 420
 cagaaataag aagttacatt tccagatttt 450

<210> 6627
 <211> 598
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-067-Q1-K6-B1
 <400> 6627

gnacccaact agcaacatag naagcacaga gggtgaccaa caatggcagc caaaatattt 60
 tgccctcctta tgctccttgg tctttctgca agtgctgcta cggcgaccat tttcccacaa 120
 tgctcacaag ctcttatagc ttcccttctt ccccgctacc tctcaccagc ggtgtcttcg 180
 gtatgtgaaa acccaattct tcaaccctat aggatccaac aggcaatcgc agctggcatc 240
 ttacctttat cacccttggt cctccaacaa tcatcagccc tattacagca gttacctttg 300
 gtgcatttat tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac 360
 cttgctgcct actctcagca acaacagttt cttccattca accaactagc tgcattgaac 420
 tctgcttctt atttgcaaca acaacaacta ccattcagcc agctatctgc tgctacccc 480
 cagcaatttc ttccattcaa ccaactgaca gctttgaact ctctgtctta tttacagcag 540
 caacaactac taccattcag ccagctagct tgggtgtgagc cctgctacct tcttgaca 598

<210> 6628
<211> 551
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-K6-B10

<400> 6628

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taacgcgaca attttccctc aatgctcaca agctcctata gcttcccttc ttccccata 120
ccttccatca attatggcgg gagtatgtga aaaccagct cttcaaccat ataggcttca 180
acaagcaatc gcagcaagca acataccttt atcgcccttg ttgtttcaac aatcaccagc 240
cctatctttg gtgcagtcac tggtaaaaac catcagggca caacagctgc agcaactcgt 300
gctacctgtg atcaaccaag tagctctggc aaacctttct ccctactctc agcaacaaca 360
atttcttcca ttcaaccaac tgtctacact gaaccctgct gcttatttgc agcaacaact 420
attaccattt agccagctag ctactgccta ctctcagcaa caacaacttc ttccatttaa 480
ccaattggcc gcaactgaacc ccgctgctta tttgcagcaa caaatactac tgccatttag 540
cgagctagct g 551

<210> 6629
<211> 588
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-K6-B12

<400> 6629

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agggctctat gtagatgagc ccctganatg nncacaaaaa tctgttcta ttgcagtagt 120
tggatcatgag aagttaagtc tgcagggccc agggggggga ggatcacaac ttaaaaaactg 180
gttgaacaac cggaagcta agcttgctcg cattgcaaaa gaaagggcgg agaagctga 240
taaaccatct acttcccatc ccggcgagtc ttcagaaagt gccggggagg acaactatct 300
acccctgca ggtgtgatga ctgttctatc caaaggtggg agcctgttga gcccggaactg 360

cactgagcaa acgtcgcagg cagagctatc cccgaacacg acgatgatgg tccgtccatt 420
 cacgagatcc ttctcgttgg aaccggccg cctcgtttca ttagtcgaca gcgatgggaa 480
 ggaggttggc aggggcaaga tcttccaagc gccagggaag agcacaacgg agagccgcgt 540
 ttgcgtggtt gatgtcactg agctcaggac cgagaagtgg agggagct 588

<210> 6630

<211> 469

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-B3

<400> 6630

aaaaaaggaa aagggaactt ttttttggg ggggggcaaa aaaaaaaaaa aaaagggggg 60
 ttttgaaaa aaaaaaaaaa aaaaaaaaaa aaagggggcc cccaaaaggg gggttggggg 120
 aggggggggg ggggggggga aaaaaaggg ggaaaaaagg aaaaaaattt tgttatctaa 180
 aaaaaggagg ggggggggacc acaaaaactt tttaaaaaaa gaaaaaacc ttatctccta 240
 aaaaaaaaaa aaatattctt catacaacc actagctctg ccaacatat tctcatacca 300
 acaacaacaa cactttcaac antttctacc accnctcaat caactaacca tgaataaacc 360
 ctaccccta cctacaacan caacaacaaa tctcatcaac ccctatcnct cccctttaat 420
 gcacctacct tcctacaaca acaaccactt caacataata taaaaactc 469

<210> 6631

<211> 591

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-K6-B4

<400> 6631

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 gatccaacag gcaatcgcag caggcatctt acctttatca cccttggtcc tccaacaacc 120
 gtcagcccta ttacagcagt tacctttggg gcatttggtg gcacaaaaca tcaaggcaca 180
 acaactacaa caacttggtg taggaaacct tgctgcttac tctcagcaac agcagtttct 240
 tccattcaac caactgggtg cattgaactc tgctgcttat ttgcaacaac aactaccatt 300

cagtcagcta gctgctgcct acccccagca atttcttcca ttcaaccaac tggcagcatt 360
gaactctgct gcttattttac aacagcaaca gctaccacca ttcagccagc tagctgatgt 420
gagccctggt gcctttcttga cacaacaaca gttgttgccg ttctacctgc acgctgcgcc 480
taacgctggc accctcttac aactgcaaca attgctgcca ttcaaccaac ttgctttgac 540
aaaccaaca acgttctacc aacaacccat cattgggtgg tgcctctttt t 591

<210> 6632
<211> 609
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-K6-B5

<400> 6632

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aaattaccga tcggtactta actacacacg caagcaatta gttcatgcgc ttattaggtt 120
gtgccactgg ccaccactac actacattac actagcacia gcaagcagct acacatactt 180
gtccatatca cataaacgaa acagcatata taagaagatg tcccaacatc tttgcaccac 240
gcgcgagatc agggggccctg caggccgaac tcttcagggc gcgggccacgt tctccttggc 300
gagcggcgcg atctcctcgc cttcgacccc tggctcgccg ccggcgaccc cgaggctgag 360
cagcacgttc tcccagttct tggcagggcc cttccaggag agatcctgga tcatgcagtt 420
cctcaccatc tctcgtacg ccggcgtgcc gaccaccttg atggcgcgct gcaatgtggt 480
ggccaccttc ttgacgtccg ccggctccac gacgttacag tcgacgctga ggcgggccat 540
gtggaaccgc gtcttgcctt cgatgatggt gtcgacgagt ccaccggtgg acgcgcaggc 600
gcagggcgt 609

<210> 6633
<211> 277
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-B6

<400> 6633

caaatcttgc ataanaggca gggtccgtgg caatcgtggg catcttcgtc gccctcctcg 60
 ccgtggccgg cgaggcggct gtgttcacgg tggatgaacca gtgcccgttc accgtgtggg 120
 ccgcgtccgt gccgggtgggc ggcgggcggc agctgaaccg ggcgagactg gcggagacgg 180
 cccccggggc acgaggccgc gcgcatctgg cgcgcacggg tgccagtctg acgcgagcgg 240
 cgcgggagct gccgcacggg ggactgcngg cgcgtgc 277

<210> 6634

<211> 611

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-B7

<400> 6634

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 aatgctcact tgctcctagt gccattattc cacagttcct cccaccagtt acttcaatgg 180
 gcttcgaaca cctagggggg caagccaaca tgcaacaaca agcgcttgcg gcgagcgtct 240
 tacaacaacc aattgccccaa ttgcaacaac aatccttgcc acatctaaca atacaagcca 300
 tcacaacgca acagcaacaa cagttcctac cagcactgag ccacctagcc atgggtgaacc 360
 ctgccgccta cttgcaagag cagctgcttg catccaaccc acttgctctg gcgaacgtag 420
 ttgcaaacca gcaacaacaa cagctacaac agtttctgcc aacgctcagt caactagcca 480
 tggatgaacc tgccgcctac gtacaacaac aacaactgct ttcactctagc ccgctcgtcg 540
 tgggcaatgc acctacatac ctgcaacaac aattgttgca acanattgta ccagctctga 600
 ctcaactagc t 611

<210> 6635

<211> 601

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-K6-B8

<400> 6635

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cagcaagcgt tgctaccgcg actattattc cacaatgctc acaacaatac ctctctccgg 120
 tgacagccgc gagatttgaa tacccaacta tacaatccta caggctacaa gaggccatcg 180
 cagcaagcat cttacggtcg ttagcattga ccgtccaaca accatatgcc ctattgcaac 240
 aaccatcctt aatgaatcta tatctccaaa gaatcgcagc acaacaacta caacaacagt 300
 tgcttccaac aatcaatcaa gtagttgcag cgaaccttgc tgcttacctc cagcaacaac 360
 aatttcttcc attcaatcaa ctagctgggg tgaaccttgc tgcttacttg caggcacaac 420
 agctactacc attcaaccaa cttgtcagga gccctgctgc cttcttactg cagcaacagt 480
 tgcttccatt ccactacaa gttgtggcaa acattgctgc tttcttgcaa caacaacaac 540
 aattgctgcc attttaccca cagggttggtg gaaacattaa cgccttcttg caacagcaac 600
 a 601

<210> 6636
 <211> 610
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-067-Q1-K6-B9
 <400> 6636

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 agatcgccgc agccgcgcgc gcggcgccgc cgctgtgctt cgcggccctg gtggccgtgg 120
 ccgtctgcca aggcgaggtc gagcggcaga ggctcagga cctgcagtgc tggcaggagg 180
 ggcaggagag cccgctcgac gcgtgccgcc aggtcctcga ccggcagcta accggcgccg 240
 gcgtcggcgc cccgttccgg tggggcaccg ggctccggat gcggtgctgc cagcagctcc 300
 aggacgtgag ccgcgagtgc cgctgcgccg ccacccggag catggtcagg ggctacgagg 360
 aggccatgcc gcctctggag aaaggctggt ggcccatggg ggccggcagca gcagccgccg 420
 ccgcaggag gaggaggagg acaggggggc tactactacc cctgcagccg ggcaggagag 480
 ggatacaaaa cgcagatgta tccaccgtgt cgtcccggca ccaccgggcc aaggatcggc 540
 cgcgtgaggc ttacgaaggc ccgggagtag gccgcggggg tgccgatgat gtgccggctg 600
 tcggagcccc 610

<210> 6637
 <211> 81
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-067-Q1-K6-C10
 <400> 6637

atgaaatgta ctcgaaatgg tgcccgtcat acgcgaactg aaaatactag aaaaatcaat 60
 atattgattg agatttatct c 81

<210> 6638
 <211> 559
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-067-Q1-K6-C11
 <400> 6638

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 ttggtctttc tgcaagtgtt gctaccgna ccattttccc acaatgctca caagctccta 120
 tagcttcctt tcttccccca tacctctcac cagcgggtgc ttcaatgtgt gaaacggcga 180
 ttgttcaacc ctacaggatc caacaggcaa tcgcaacagg catcttacca ttatcacctc 240
 tgttcctcca acaacogtca gccctattac agcagttacc tttggtccat ttggtggcac 300
 aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct gcatactctc 360
 agcaacatca gtttcttcca ttcaaccaac tggctgcatt gaactctgct gcttatttgc 420
 aacaacaatt accattcagc cagctagttg ctgcctaccc ccagcaattt cttocattca 480
 accaactagc agcattgaac tctgctgctt atttacagca gcaacaacta ctaccattca 540
 gccagctagc tgatgtgag 559

<210> 6639
 <211> 627
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-067-Q1-K6-C12
 <400> 6639

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaagg 120
 ggcggccctt tttaaaaggt acccaacttt acttccccgt ccttccaatt tttttttttt 180
 tttttagtgc cccctaattg gggggggggg gccctctttt tacaacttct tacctggaaa 240
 acccctgggg ttaccaatt taatcccttt gcaacacatc cctttttccc cagttggcct 300
 attaccaaaa agggcccccc cgttcccctt tccaaacatt tgcccacct aattggcaat 360
 tgggaccccc cctttaccgg cctttaacc cggcggttt tgggtgtttcc cccaggttg 420
 acctttacat ttgccagccc cttaccccc gttcttttcg tttttttcct ttcttttttc 480
 ccactttcc cgtttttcc ccttaaattt taaatcggg gcctcctttt agggttccat 540
 tttattgttt tacggcccct cgccccaaa aaactttttt agggtaatgg ttcccttttg 600
 ggcccttcgc cctaataaac gtttttt 627

<210> 6640

<211> 607

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-C3

<400> 6640

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 tattttgctt ccttatgctc cttggtcttt ctgcaagtgt tgctaccgca accattttcc 120
 cacaatgctc acaagctcct atagcttccc ttcttcccccc atacctctca ccagcgggtg 180
 cttcaatgtg tgaaaaccca attgttcaac cctacaggat ccaacaggca atcgcaacag 240
 gcattcttacc attatcacc ttgttcctcc aacaaccgtc agccctatta cagcagttac 300
 ctttggtcca tttggtggca caaaacatca gggcacaaca actacaacaa cttgtgctag 360
 caaaccttgc tgcatactct cagcaacatc agtttcttcc attcaaccaa ctggctgcat 420
 tgaactctgc tgcttatttg caacaacaat taccattcag ccagctagtt gctgcctacc 480
 ccagcaatt tcttccattc aaccaactag cagcattgaa ctctgctgct tatttacagc 540
 agcaacaact actaccattc agccagctag ctgatgtgag cctgctgcc ttcttgacaa 600

acaacag

607

<210> 6641

<211> 606

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-C4

<400> 6641

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ggcctccacc gctgcccga ccagctctc ctggtctctc caccgcccgc gtcgcccc 120

gcgtgccgcc agtcggccac cgcctcatcg cggggcctca ggagctccct cgcgctcttc 180

tccgcacccg gggctcgggt agcggcgggc gcgcgcgagc agaagtgggg ccacgtggag 240

ggtgatgaag acggtggaga ggagggccta ggggaggcgc tccacaggac ggggagctc 300

gtggagtgcg ccatgttcgc ggccgtcgt gggctggcct acttctcag caattccctc 360

gccattgaga attatttcag ttgctttttc ccattgccga tagtcatttc ctcatgaaga 420

tggggactag aagccagcag gaaaaccgtg gctactgttt tactgctatt cacattatct 480

ggcctgtaa aagcgtcaac ttatctgcta atgcatggag tagttggtct catcatgggt 540

actgtttgga ggtgagaagt acagaggtta aatattgaag cttctgcttt cgtcatcggc 600

ttcttt 606

<210> 6642

<211> 531

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-C5

<400> 6642

caacatagna aagcacaata gtgtaccaac aatggcagcc aaaaattttg cctccttatg 60

ctccttggtc tttctgcaag tgctgctacg gcgaccattt tcccgaatg ctgcgaagct 120

cctatagctt cccttcttcc cccgtacctc tcaccagcgg tgtcttcggt atgtgaaaac 180

ccaattcttc aacctacag gatccaacag gcaatcacag ctggcatctt acctttatca 240

cccttggtcc tccaacaatc atcagcccta ttacatcagt tacctttggt gcattttattg 300
gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct tgctgcctac 360
tctcagcaac agcagtttct tccattcaac caactagctg cattgaactc tgctttcttat 420
ttgcaacaac aacaactacc attcagccag ctacctgctg cctaccccca gcaatttctt 480
ccattcaacc aactggcagc attgaaccct cctgcttatt tacagcagca a 531

<210> 6643
<211> 606
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-K6-C7

<400> 6643

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gggaggccgc ggcggcgcgg gtgcggcccg tggagacgct gcttcgcgcg gcaccgctgg 120
ggctctgcgt ggccgccatg accgtcatgc tccgtaacca gcagagcaac gagtacggcg 180
ccgtcgccta ctccgacctg ggaggcttca agtacctcgt ctacgccaac ggccctctgcg 240
ctgcctactc gctggtatcc gcgttctaca ctgcctgcc gaggcctgcc accgtgtcgc 300
gctcctggct cgtcttctc ctcgaccagg tgttcacgta cctgatcctg gcggcgggcg 360
cagcggcggc ggagctgctg tacctcgcct acaacggtga caaggagggtg acgtggagtg 420
aagcttgcg cgttttcggc agcttctgcc gtcaggcgcg cacctccgtc gccatcacct 480
tcggcacctg cctctggttc atcctcctgt cctcatctc ctctgaccgc cttttcagcg 540
cctacgaggc gccccgcg tggcgctcg gcagcaaggg cgtcgagatc gcgcctacc 600
cgcgct 606

<210> 6644
<211> 594
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-K6-C9

<400> 6644

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 caaccatata ggattgtata gttgggtatc gaaatgcctc ggttgttacc ggaaacggtg 120
 ttgatcggct gcatcgtcga ttgttattct tcatcaatca acttgctgca gggggggggg 180
 gggggggggg tccaacaaca tcantttctt tccttcaatc aacggggggg ggtgaacctt 240
 gctatctact tgcaggcaca tcagctacta ccatttaacc aacttgctcg cagcccttat 300
 gccttcttac tgcaacaaca gcttctgcc a ttctatctgc aagctgcggc aaacattggt 360
 gctttcttga cacatcaaca tttcttgcca ttttaccac aatttggtggc aaacattaat 420
 gccttcttgc atcatcatca tttgctccca ttttaccac anaatgtggc atacattggt 480
 gccttcttac tacacctaca attgcttcca ttttatccta ctttcttttc ctaaatccta 540
 ccaccttatt tgcaaccacc caccatttgt tgggtgcctc ttctactttt tttt 594

<210> 6645

<211> 234

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-D10

<400> 6645

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 gtctttctgc aagtgtgct accgcaacca ttttccaca atgctcaca gctcctatag 120
 ctctctttct tccccatac ctctcaccag cgggtgtcttc agtatgtgaa aacccaattc 180
 ttgcacccta caggatccaa caggcaatcg cagcaggcat cttaccttta tcac 234

<210> 6646

<211> 596

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-K6-D11

<400> 6646

gtcacaaatc cattgacaac attggggggg ggggggggat cagctaaaaa aaagaatata 60
 tggaacttgt gcagaaactg tcgaggacga tgctgatatc actatatcat gtgctcctgt 120
 tgatgagagc cgagcttcta aaaatgggct agtgaagatt gatcactatg gacggggggg 180

ggaattctttt·gaaaaaccaa aggtgctgat ttgaattcta tgagagttga gaccaacttc 240
 ctgagctatg ctatagatga tgcacagaaa tatccatacc ttgcatcaat gggcatttat 300
 gtcttcaaga aagatgcact tttagacctt ctcaagtcaa aatatattca attacatgac 360
 tttggatctg aaatcctccc aagagctgta ctagatcata gtgtgcaggc atgcattttt 420
 acgggctatt gggaggatgt tggaacaatc aaatcattct ttgatgcaaa cttggccctc 480
 actgagcagc cttccaagtt tgatttttat gatccaaaaa cacctttctt cactgcaccc 540
 cgatgcttgc ctccgacgca attggacaag tgcaagatga aagatgcatt tatctc 596

<210> 6647

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-K6-D12

<400> 6647

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 cgaggggagga gcaacaacaa caaccatgtg agttatgtgg atctcaacaa gctactcaaa 120
 gtgcggtggc aatcttgaca gcagcacaat acctaccatc aatgtgcggc ttgtaccact 180
 catactacca aaataatcca tgcggggggg ggggcattag tgggtgtttgc aattgaagaa 240
 ttgtgtctac ctagecgtta tactcatata acggtgttaa gcaataaagt accatacatt 300
 atgatgtttg taaaaaaaaa aaaaaaaaaa aaaaaaaaaac caaaaaaaaaa aaaaaaaaaa 360
 aaaaaagaag gacgataata a 381

<210> 6648

<211> 623

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-D5

<400> 6648

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 tttgcctcct tatgtctcct ggtctttctg caagtgtgtg tacggcgacc attttcccg 120

aatgctcgca agctcctata gcttcccttc ttcccccgta cctctcacca gcggtgtctt 180
cggtatgtga aaacccaatt ctccaacctt acaggatcca acaggcaatc acagctggca 240
tcttaccttt atcacccttg ttccctcaac aatcatcagc cctattacat cagttacctt 300
tggtgcattt attggcacia aacatcaggg cacaacaact acaacaactt gtgctagcaa 360
accttgctgc ctactctcag caacagcagt ttcttccatt caaccaacta gctgcattga 420
actctgcttc ttatttgcaa caacaacaac taccattcag ccagctacct gctgcctacc 480
cccagcaatt tcttccattc aaccaactgg cagcattgaa ctctcctgct tatttacagc 540
agcaacaact actaccattc agccagctag ctgggtgtgag ccctgctacc tcttgatata 600
accacagttg ttgccgttct acc 623

<210> 6649

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-E1

<400> 6649

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agatattatc cctccttgcg cttcttgccg tttttgcgag cgcaacaaat gcgttcatta 120
ttccacaatg ctcaattgct ccaagttcca ttattacaca gttcctccca ccagttactt 180
caatgggctt cgaacacca gctgtgcaag cctataggct acaacaagca attgcggcga 240
gcgtcttaca tcatccaatt tccccgttgc ttctgcattc cttgggtcat ttaacactgc 300
aaaccatggc tgccgagctg cggctgctgt tccctgccggc tctgtgcctc ctgggcctgg 360
ttgaaccctg ccgcctgctt gctgcggagt ttgggttgcgt gattccagct tgggtctgggc 420
gtcgtgggtg 430

<210> 6650

<211> 488

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-E10

<400> 6650

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cagccagcta gctactgcct actctcatca acaacaactt cttccattta accaatgggg 180
gggggggaac ctcgctgctt atttgacga gcaaatacta ctaccattta gccagctagc 240
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tgcggttaac cccgcaacct tcttacaact acaacaattg ttgccctttg tccaacttgc 360
tttgacaaac ccagcagcct cctaccaaca acacatcatt ggtggtgccc tcttttagat 420
tgcttattag ttgtaattca ataataaagt tttttgatg atgtatgtgg ccaaccagaa 480
atnngana 488

<210> 6651

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-E11

<400> 6651

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gtaattcaat aataaagttt tttggatgat gtatgtggcc aaccagaaat aagaagttac 120
atttcagat tttaatgtga aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaagag 180
gggggggggg gagaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaaaaa 240
aaaaaaaaaa aaaaaaaccc aaaaaaaaaa aaaaaagggg gggccccctt tagaaaaaaa 300
aaaattttac ccccccttta tagaaaaaat aatatttttt ttttagggcc cccaaaaaaa 360
aaaaatcggc cccgtttttt aaaacccta gagggaaaaa accccggggc cccccaaatt 420
aaaccctta aaaaaaatcc cctttttccc cagggggg 458

<210> 6652

<211> 617

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-E3

<400> 6652

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tctttgaatc aatgtagtaa tcaactctgat catgtacgaa gtaaaatTTt tgtaatttgt 120
aaaatttggT aataagattt ccgctgcaaa atattggTgt gtgtgatttg tattacttaa 180
tcccgcggTt ctggttgtaa gtggtttatc cggTgtccgt ggggcaatca gacggatcct 240
gttaagttat ctggtgcaca tgcattggccg tctgagttct ttaagacaag gacaggtgca 300
tgtgagcccg ataccttggg aggttctgcc acatcatgct tgcgactatc gcgtcgaatt 360
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taatatttat tagattgcct gagtcgtttt agtaatttgg tccatgtcgt aggatgaaaa 480
agatctcaat aggtctcagt gtttgccgga ttgtaggtgt taaaaatggg aagttatatt 540
aatatatata tgatacacag gttaatcggT aatcaagta attaagatac acagtttaaa 600
gagttaataa aaagcta 617

<210> 6653

<211> 615

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-K6-E6

<400> 6653

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ccggtgcacT tcccaccgcc ggtccacctg ccgccgccgg tccacctgcc accgccggTc 180
catgtgccgc cgcgggttca tctgccgccg ccaccatgcc actaccctac tcaaccgccc 240
cggcctcagc ctcatcccca gccacacca tgcccgTgcc aacagccgca tccaagcccg 300
tgccagctgc agggaaacctg cggcgTtggc agcaccgccga tcctgggcca gtgcgtcgag 360
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ttgcggcagc agtgttgcca gcagctcagg caggtggagc cgcagcaccg gtaccaggcg 480
atcttcgggt tggTcctcca gtccatcctg cagcagcagc cgcaaagcgg ccaggTcgcg 540

ggggctgttg ggggcgcaga tagcgcagca actgacggcg atgtgcggcc tgcagcagcc 600
gactccatgc ccta 615

<210> 6654

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-K6-E7

<400> 6654

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ggggcttcac caagttcagc cgtgccgact acctgaagta caagagtgag ggtagaattg 180
gggctgatgg tgtcaacgca aagctgctcg gtaaccatgg aagacttgag aagcgtgctc 240
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agacgttttg ctttagccta tcttattttg ctttgtgcaa catgaatttt aagtgtatgg 360
ggattacag tgccttgtct tgtgtgaacc tgcttatctc gtgctgaaca tcgttatgca 420
tggaagtact tatcttttgt tctgct 446

<210> 6655

<211> 616

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-E8

<400> 6655

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caagatTTTT gccatccttg cctccttgc tctttcagca agcgttgcta ccgcgactat 120
tattccacaa tgctcacaac aatacctctc tccggtgaca gccgcgagat ttgaataccc 180
aactatacaa tcttacaggc tacaagaggc catcgcagca agcatcttac ggtcgtttagc 240
attgacgctc caacaaccat atgccctatt gcaacaacca tccttaatga atctatatct 300
ccaaagaatc gcagcacaac aactacaaca acagttgctt ccaacaatca atcaagtagt 360
tgcagcgaac cttgctgctt acctccagca acaacaattt cttccattca atcaactagc 420

tggggtgaac cctgctgctt acttgcaggc acaacagcta ctaccattca accaacttgt 480
caggagccct gctgccttct tactgcagca acagttgctt ccattccatc tacaagttgt 540
ggcaaacatt gctgctttct tgcaacaaca acaacaattg ctgccatttt acccacaggt 600
tgtggggaaa cattaa 616

<210> 6656
<211> 609
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-K6-E9

<400> 6656

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gttgccctcg ctctcctggc tctcgctgcg agcgccacct ccacgcatac aagcggcggc 120
tgcggtgcc agccaccgcc gccggttcat ctaccgccgc cgggtgcatct gccacggggg 180
gggcacctgc cacctccggt gcattctcca ccgcggtcc acctgccgcc gccggtccac 240
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ccgcatcaa gcccggtgcca gctgcaggga acctgcggcg ttggcagcac cccgatcctg 420
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cctcagtgcc agtcgttgcg gcagcagtgt tgccagcagc tcaggcaggt ggagccgcag 540
caccggtacc aggcgatctt cggcttggtc ctccagtcca tcttgcagca gcagccgcaa 600
agcggccag 609

<210> 6657
<211> 600
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-K6-F10

<400> 6657

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tttcaagaca gtagaggaat cttcattgga cagattgtta acaaatgttg atgaggaagg 120
 ccatctatat ggggtttctg gaggttctgg gggctatgca gaaacaatct ttcgctatgg 180
 gggggaggta atttacaaga gagaaataga gggtcctctt gacttcagaa tcctccgaaa 240
 ttcagatttt cgtgaaatta cactggaggt ggagggcaaa cctgttttga agtttgcact 300
 ttgttatgga ttcaggaacc tgcagaatgt tgtaggaag attaagatgg gaaaatgtga 360
 ataccacttc attgaagtta tggcgtgcc ttcaggttgt ttgaacgggg gaggtcaatt 420
 aaagcctgtt gaaggccaat ctgccaagga acttatccag caattggaga gtgtgtacac 480
 acaagatata ttaatatctg atcctttccg taaccctatc gcgaaaaaac ttatgacgaa 540
 tggctggggc aacctggttc anagaatgca aagaagtatt tgctcacaga atatcaccca 600

<210> 6658
 <211> 602
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-067-Q1-K6-F2

 <400> 6658

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 caccaccgga gcagctacgc gtggttccta tggatgaccg gcggcgctga gacctgcctc 180
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 cttgggatcg gagacacaat ccaaaagcag acaagaaaaa gacgacgacg accttacctt 300
 taccaccggc aagtgccccg gccggccggc gggccggcca tttagatggc gcgtctaggt 360
 atcgccgtac gtcgtgccgc atgcatgcat gcccgcggc gcaagatggc tatgcagcaa 420
 gcgtagtata tatcatccat gacgacgcc ggccgttgta gataggtgca agttttccag 480
 tgtgctagat gcatgtgcgc gtcaaggagg cagccagccc aatagcccat gcagggccag 540
 gaagcgaaca ataataatgt tggcaaagct gctagcgcac gttagagcgt gtgatgcata 600
 gt 602

<210> 6659

<211> 605
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-K6-F3

<400> 6659

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ctccagagat ggaagaactc gaagtgcaca ttctctgagt tctgtTTTga gccaatag 120
aggcgatgat gatacagact tccttggttc agaggctact tctggttcca aacgatgggg 180
taatgttgcc gatgttactt atggacggca gaatcagaag caaagggagc ctctgaattt 240
ccctcaaaga aaagggcctc tggacggcgg attTTTcagt cgcagatctt tcaaggagat 300
tggctgcaac gatgaaatgc taggtgcgtt gagaaatttt gatttcctc gtccatctca 360
tatccaggct atggcatatg ggcctatctt agaggggagg agttgtgttg ttgctgatca 420
aagtggatct ggcaagacac tggcatatct ttgccctata atacaaaact taaggaacga 480
agaagttcaa gggctccata aatcatcccc taggaacccc agggtgatag tattgacccc 540
tactgctgaa cttgcttctc aggtccttaa caactgccgg ttgatatcaa aatctggggg 600
tccat 605

<210> 6660
<211> 605
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-K6-F5

<400> 6660

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cgcttcttg cgtttttgag agcgcaacaa atgcgttcat tattccacaa tgctcacttg 120
ctccaagttc cattattaca cagttcctcc caccagttac ttcaatgggc ttcgaacacc 180
cagctgtgca agcctatagg ctacaacaag caattgcggc gagcgtctta caacaaccaa 240
tttccagtt gcaacaacaa tccttggcac atctaacaat acaaaccatc gcaacgcaac 300
agcaacaaca attcctacca gcactgagcc acctagccat ggtgaaccct gccgcctact 360
tgcaacagca gttgcttgca tcaaaccac ttgctctggc aaacgtagtt gcaaaccagc 420

cacaacaaca gctgcaacag tttctgccag cgctcagtc actagccatg gtgaaccctg 480
 ccgcctacct acaacagcaa caactgcttt catctagccc gctcgctgtg gccaatgcac 540
 ctacatacct gcaacaacaa ttgttgcaac agattgtacc agctctgact cagctagttg 600
 tggca 605

<210> 6661
 <211> 602
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-067-Q1-K6-F7

<400> 6661

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 tcgaacaccg cgcggatgga ggacggcggc ggcgacctgc ggagcaccat caagaagtgg 120
 aacatcatct accctgtcta cctcaactcc aagaagacgg tcgccgaggg ccgccgcac 180
 ggcggtgcca aggctgccc ggaccccacc tgcacgaga tcgctgactg ctgttcgcac 240
 ctcaagatcc cccacgccat cgagttggat aaggcgtacc ctcgggattt cttccaggtg 300
 gggaggggtca ggggtgcagct taagaaagat gacggctccc ccgtcaatcc tgctattaaa 360
 acgaagaagc agctgatgat ccaagtagca gagctagttc ccaagcatca cggaaggaca 420
 aagaagcagg agccagcgcc caatcccggg ggcagttcaa agaacacaaa aggcgggaaa 480
 aagaaaaagt gatgcagtat cattgtgttg tttttgttc tgttcgtcat catacactaa 540
 gcttctgtga aaaagaaaaa tcttgacact tgttggtatg ttgccattgt gccatttttc 600
 at 602

<210> 6662
 <211> 605
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-K6-F8

<400> 6662

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aggttgcctt tcagcactga aagctagtga ttggcacttg gaaggagctt ttgacttctt 120
 ctatagccaa cctcagggtt ctgtgggtcaa tactcggcac cttgaagata ttttcaacag 180
 atataaagaa cctgatgctg atatgataat ggtggaagga atatctcaat tttgcaatga 240
 tctgcagggt gatcctcagg atattgtcat gcttgtcata tcatggcaca tgaaagccgc 300
 cacaatgtgt gaatttactc gtcaggaatt cattgggtga ctgcagtcaa ttggggtaga 360
 ttcaatcgag aagtttcgtg gaaaattacc atcattacga gctgagctaa aagatgacaa 420
 taaattccgt gatataatac actttgcatt cacttgggca agggaaaagg gtcaaaagtc 480
 tctctcactg gagacttcta ttggaatgtg gcagttgcta tttgctgaaa ggaactggcc 540
 tcttctggat cattgggtgc agtttttaca ggtcagacac aataaagcca tatctagaga 600
 cacat 605

<210> 6663

<211> 602

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-F9

<400> 6663

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 tgctccttgg tctttctgca agtgtgtgta cggcgaccat tttcccgcga tgctcgcaag 120
 ctctatagc ttcccttctt ccccggtacc tctcaccagc ggtgtcttcg gtatgtgaaa 180
 acccaattct tcaaccctac aggatccaac aggcaatcac agctggcatc ttacctttat 240
 cacccttgtt cctccaacaa tcatcagccc tattacatca gttacctttg gtgcatttat 300
 tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac cttgtctgct 360
 actctcagca acagcagttt ctccatttca accaactagc tgcattgaac tctgcttctt 420
 atttgcaaca acaacaacta ccattcagcc agctacctgc tgctacccc cagcaatttc 480
 ttccattcaa ccaactggca gcattgaact ctctgtctta tttacagcag caacaactac 540
 taccattcag ccagctagct ggtgtgagcc ctgtacctt cttgatacaa ccacagttgt 600
 tg 602

<210> 6664
<211> 600
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-K6-G10

<400> 6664

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ccctccttgc gcttcttgcc ctttttgtga gcgcaacaaa tgcgttcatt attccacaat 120
gctcacttgc tcctagtgc attataccac agttcctccg accagttact tcaatgggct 180
ggggacacct agctgtgcaa gcctacaagc tacaacaagc gcttgcggcg agcgtcttac 240
aacaaccaat taaccaattg caacaacaat ccttggcaca tctaaccata caaaccatcg 300
caacacaaca gcaacaacag ttctaccag cactgagcca actagatgtg gtgaaccctg 360
tcgcctactt gcaacagcag gtgcttgcac ccaaccact tgctctggca aacgtagctg 420
cataccaaca acaacaacaa ttgcaacagt ttctgccagc gctcagtcaa ctagccatgg 480
tgaaccctgc cgcctaccta caacagcaac aactgctttc atctagccct ctggttggg 540
gtaatgcacc tacatacctg caacaacaat tgctgcaaca gattgtacca gctctgactc 600

<210> 6665
<211> 585
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-K6-G12

<400> 6665

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ttccttatgc tccttgggtc ttctgcaagt gttgctaccg caaccatttt ccacaaatgc 120
tcacaagctc ctatagcttc ctttcttccc ccatacctct caccagcggg gtcttcaatg 180
ggggggagac ccaattgttc aacctacag gatccaacag gcaatcgcaa caggcatctt 240
accattatca cccttgttcc tccaacaacc gtcagcccta ttacagcagt tacctttggg 300
ccatttgggtg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360
tgctgcatac tctcagcaac atcagtttct tccattcaac caactggctg cattgaactc 420

tgctgcttat ttgcaacaac aattaccatt cagccagcta gttgctgcct acccccagca 480
 attttcttcca ttcaaccaac tagcagcatt gaactctgct gcttattttac agcagcaaca 540
 actactacca ttcagccagc tagctgatgt gagccctgct gcctt 585

<210> 6666
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-K6-G4

<400> 6666

gtcacaacat agcgaatacc gggggggggg gaacgccaac aaaacccaac acgaggcata 60
 cttctccatc tgctctatc aacagcggtt gatacgctta ccttgagaca ggaacgcgaa 120
 cagcaagacc tattccatt ggcagccgcg ggcggggaaa ccccaaactg aacagcaagc 180
 accggtccaa caagaaccag gcccttcaat ccactcgggg gaagaccag ccacgaacag 240
 caacaatagc cttcacctg cgaccgcaa acgaaaacaa gcggtatcag taaactactc 300
 ccaggtcatc cacaacaact acagaaacag gcagcacgaa gcacaattgc taaagcggac 360

<210> 6667
 <211> 587
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-K6-G6

<400> 6667

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 tctgatgact gggcgcttaa tacagacaaa ctggcagaac tgaagaagtt tgctgataat 120
 gaagatctgc attcagagtgc gcgtgctgct aagaaggcta acaaaatgaa ggttgtttct 180
 cttataaggg agaagacagg agatattgtc agtccagatg caatgtttga tgtgcagggtg 240
 aaaaggatac atgaatataa gcggcagctg cttaaatacc ttggaattgt ctaccgctac 300
 aagaagatga aagaaatgag cacagaagaa agagcaaaga gctttgttcc aagggtatgc 360
 atattcgggtg ggaaagcatt tgccacatat atacaggcaa aaaggatcgt taaatttatt 420
 acagatgtgg cagctaccgt gaaccatgat tcagacattg gagattttgtt gaaggtcgtg 480

tttgttccag actataatgt tagtggtgcc gaggcgctaa ttcctgccag tgaattgtca 540
cagcatatca gtactgctgg aatggaagct agtggggacca gtaacat 587

<210> 6668
<211> 602
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-K6-G7

<400> 6668

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gacattatcc ctccttgccg ttcttgccct tttgtgagt gcaacaaatg cgttcattat 120
tccacaatgc tcaactgctc cgagtgccat tattccacag ttcctccctc cagttacttc 180
aatgggcttc gaacaccag ctgtgcaagc ctataggcta caacaagcgc ttgcggcgag 240
cgtcttagaa caaccaattg cccaattaca acaacaatcc ttggcacatc taaccataca 300
aaccatcgca acgcagcagc aacaagcact gagccaccta gccgtggtga accctatcgc 360
ctacttgcaa caacagctgc ttgcatccaa ccacttgct ttggcaaacg tagctgcata 420
ccaacaacaa caacagttgc aacagtttct accagcgcct agtcaactag ccatgggtgaa 480
ccctatcgcc tacctacaac agcaacaact tctttcatct agcccgcctg ctatgggcaa 540
tgcacctaca tacctgcaac aacagttggt gcaacaacag ttgctgcaac aaattgtacc 600
ag 602

<210> 6669
<211> 626
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-K6-G8

<400> 6669

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gactggcaca ccggccctct ctogtgctac ctcaagagca actaccagtc ccacggcatc 120
tacagggacg caaagaccgc tttctgcata cacaacatct cctaccaggg ccggttcgcc 180

ttctccgact acccgagct gaacctcccg gagagattca agtcgtcctt cgatttcac 240
 gacggctacg agaagcccgt ggaaggcccg aagatcaact ggatgaaggc cgggacctc 300
 gaggccgaca gggctctcac cgtcagcccc tactacgcg aggagctcat ctccggcatc 360
 gccaggggct gcgagctcga caacatcatg cgcctcaccg gcatcaccgg catcgtcaac 420
 ggcatggacg tcagcgagtg ggaccccgaggc agggacaagt acatcgccgt gaagtagcag 480
 gtgtcgacgg ccgtggaggc caaggcgctg aacaaggagg cgctgcaggc ggaggtcggg 540
 ctcccgttg accggaacat cccgctggtg gcgttcacg gcaggctgga agagcagaag 600
 ggccccgacg tcatggcggc cgctct 626

<210> 6670

<211> 618

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-H1

<400> 6670

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 gaggtctctt attctactgg ctattctggt gcttagcaa acccactaat tgtgccagaa 120
 tattcagtta gcagattgaa tgcagatgtc ctggagcaat ttataactga gaactacact 180
 gcttccagaa ttgttctagc tgcacaggt gttgatcatg atgaattggt atctattgcc 240
 gaacccttct tgtctgacat tcccagtgtg tctggaacaa caaggccaaa atcaacctac 300
 attggtggag aatacagaag aagtgcagat tcacgaaca cagacgttgc attggcattc 360
 gaggtcccaa gtggttggt caaagaaaaa gatttgttca ctgtatcagt tcttcaggca 420
 cttctgggtg gtggtggcaa gttttcttgg ggaaggcaag gaaaggggtt acattcacgt 480
 ctaaacgcc tcgtaaatga atttgatcag atcaagtcaa tctctgctt caaggatgtt 540
 cacagtaata ctggcatctt tggaatccat acatctactg atgcatcatt tgttccctaa 600
 gctattgacc tagcagcc 618

<210> 6671

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-K6-H10

<400> 6671

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taccoccttac tctttctgca tcatgttgcc aacgcgacac ttttccctac aatgggcaca 120
aacaccttta acttccctta ttccccatt ccttctctca atcatcccct cactttttta 180
gaaggggggg gtcagcccta taaagctcca aaagccattg cccccggcaa cataa 235

<210> 6672

<211> 626

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-H11

<400> 6672

cccggtcgac ccagcgtccg tgcacatana agcacatagg gggggagagg gggggcaaaa 60
attaagcctc cttatgctcc ttgggtcttc tgcaagtgtc gctacggoga ccattttccc 120
gcaatgctcg caagctccta tagcttcctt tcttcccccg tacctctcac cagcgggtgc 180
ttcgggtatgg gaggggggag ttcttcaacc ctacaggatc caacaggcaa tcacagctgg 240
catcttacct ttatcacctt tggttcctca acaatcatca gccctattac atcagttacc 300
tttggtgcat ttattggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc 360
aaaccttgct gctactctc agcaacagca gtttcttcca ttcaaccaac tagctgcatt 420
gaactctgct tcttatttgc aacaacaaca actaccattc agccagctac ctgctgccta 480
ccccagcaa tttcttccat tcaaccaact ggcagcattg aactctcctg cttatttaca 540
gcagcaacaa ctactaccat tcagccagct agctggtgtg agccctgcta ccttcttgat 600
acaaccacag ttgttgccgt tctacc 626

<210> 6673

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-H12

<400> 6673

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caccaggggaa cagttactac cagaacggga atgggaggtt cagtcgcgtg aacaatggcg 120
ccaagcaagc tccnttggcc gcgggggggg gggggggcnn tangcttaca tcaaactagg 180
aagcataagg ctacattcaa gtgagctgag tgcaaggatt attcttagta ggagcattgc 240
tgtcagacag cttgggttatt tttttttgtg ccgtgttggg tcgctaagag attagtagtt 300
gcagtcgtcc gtggatggta ggtgaatddd gttgccgttg atgagcttgt caactgggtg 360
ttggaccatg gttcgtaact ttgtgtcatc tgccaatcag gattggtggg aggttagaca 420
ctaattcttat gaagcgggtga ctg 443

<210> 6674

<211> 624

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-K6-H4

<400> 6674

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ctgcaggatt ccatagtddd gatgaggaaa ctgcttcaga agcaagagtc tggttctaag 120
aagcctaaga agggagctgc accggcacct ccgtccgagg aaaagaagat gagcattggc 180
ctcatatatg tgaacgagca ctactctgga tggaaagagc agtgcttgaa ggtgctgcag 240
tccaagtctg acagccaaag ccgctccttc tcacccgatc aggaaatcgc agaagctctg 300
aaggagtgcc ccatcgggca ggaaatgaac ctgaagcagg ttcagaagct gtgcatgccc 360
ttcatcaagc tgaagaagga cgaggcaagg gaggttggtc ctcaggcgct ggacttgaag 420
cttccgttctg gtgagatgga tgttctccgg gagaacttgg agctgatcaa gaggcagctg 480
ggccttgagc aagtcgaggt gctctccgcg tcggacgaag ctgctcgcgc taaggctggt 540
gaacatgctt cgctgctgga gaagaaccca ccatcacccg gcgaccccat cgccatcttt 600
ctcagcaaac agagctgaaa actg 624

<210> 6675

<211> 609
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-K6-H6

<400> 6675

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ccaagatatt ttccctcctt atgctccttg ctctttctac atgtgttgct aacgcgacaa 120
ttttccctca atgctcaciaa gctcctatag cttcccttct tccccatac cttocatcaa 180
ttatagcttc agtatgtgaa aaccagctc ttcaaccata taggcttcaa caagcaatcg 240
cagcaagcaa cataccttta tcgcccttgt tgtttcaaca atcaccagcc ctatctttgg* 300
tgcagtcatt ggtacaaacc atcagggcac aacagctgca gcaactcgtg ctacctgtga 360
tcaaccaagt agctctggca aacctttctc cctactctca gcaacaacaa tttcttccat 420
tcaaccaact gtctacactg aacctgctg cttatttgca gcaacaacta ttaccattta 480
gccagctagc tactgcctac tctcagcaac aacaacttct tccatttaac caattggccg 540
cactgaaccc cgctgcttat ttgcagcagc aaatactact gccatttagc gagctagctg 600
cagcaagtc 609

<210> 6676
<211> 591
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-K6-H7

<400> 6676

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ccaagatatt atccctcctt gcgcttcttg cgctttttgc gagcgcaaca aatgcgttca 120
ttattccaca atgctcactt gctccaagtt ccattattac acagttcctc ccaccagtgg 180
ggggaatggg cttcnaacac ccagctgtgc aagcctatag gctacaacaa gcaattgcgg 240
cgagcgtctt acaacaacca atttcccagt tgcaacaaca atccttggca catctaacaa 300
tacaaaccat cgcaacgcaa cagcaacaac aattcctacc agcactgagc cacctagcca 360

tggatgaaccc tgcgcctac ttgcaacagc agttgcttgc atcaaaccga cttgctctgg 420
 caaacgtagt tgcaaacag ccacaacaac agctgcaaca gtttctgcca gcgctcagtc 480
 aactagccat ggtgaaccct gccgcctacc tacaacagca acaactgctt tcacttagcc 540
 cgctcgctgt ggccaatgca cctacatacc tgcaacaaca attgttgcaa c 591

<210> 6677
 <211> 610
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-K6-H8

<400> 6677

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 acagtgtca cttgtccta gtgccattat tccacagttc ctcccaccag ttactggggg 180
 ggggggtcgaa catccagccg tgcaagccta caggctacaa ctacgcttg cggcgagcgc 240
 cttacaacaa ccaattgcc aattgcaaca acaatccttg gcacatctaa ccctacaaac 300
 cattgcaacg caacaacaac aacaacaaca gtttctgcca tctactgagcc acctagccgt 360
 ggtgaaccct gtcacctact tgcaacagca gctgcttgca tccaaccac ttgctctggc 420
 gaacgtagct gcataccagc aacaacaaca gctgcaacag tttatgccag tgctcagtc 480
 actagccatg gtgaaccctg ccgtctacct acaactactt tcacttagcc cgctcgcggt 540
 gggcaatgca cctacgtacc tacaacaaca gttgctgcaa caaattgtac cagctctgac 600
 tcagctagct 610

<210> 6678
 <211> 505
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-067-Q1-N6-A1

<400> 6678

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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt ttggaaaaaa 120

aagctttgtt gttgggaaaa atttaacttt aaaagggagg gggggggggg gttaacattg 180
 gaaaaaaact ggaaatgtaa aaaaaagggg ccaacttaaa ataaaaaggt ttgggggtgg 240
 aaaaaattta actttgaaaa aaaagccttg ggcagttaaa accatttttg actcccgaaa 300
 gggattaaaa accttggttt ttttttcttg aaaagggcaa gtggggaccc cccaaaaacc 360
 ttaaaaactt taaacctgac cccaagaatg ttttcacaag agtggccctt tagggtttcg 420
 accaaatcca aaaataaaaa cctaataatt ctcccgaaag gagtttaggc aaccattttt 480
 ngggcaaagg gaagaaatgt ttttt 505

<210> 6679

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-N6-A10

<400> 6679

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 taaaaaaaaac agtggtttct gaactttcag tatctcaaac acaaacaggg gggccccaag 120
 ctgaggccag acagggaaaa agccatggcn ctccctgggg gggggggggg gtttnntaaa 180
 aattnnctgn aggtattcct acttggtgcc gaggacccgg gcccggtgt caggggaagtt 240
 ctccatcccg ggcagctcag taacggggcc ctcgggagtg acaccgatcg ggtagctgag 300
 gaggggggcc gggagggcct gctccaggtc attacttgag tacagggccc agtacttttt 360
 ggggatcttg ttgacctttt gaacgcactc taccctttcg gggcgct 407

<210> 6680

<211> 548

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-N6-A11

<400> 6680

ggggggggtg tgtttgattg aaaattntgt attcttttat aatgaatatt tatttacacc 60
 tggtgacatc ccgggtggcg ggcaaataac atagctccta gtaatctgaa tgcaacgtat 120

atgtgcgtgt agtagctcaa gcaaaggggg gggggggggg ggaaaaaact ttcttcttat 180
 tatgtacacg gaacacccaaa gccaaaaata ttgccccgt taggggtccac caagtagaca 240
 tgttcggaga aatttcagag ctctagaagc tttagatgct gaactgaaac tgaaaagtta 300
 gagcctagtc aggtagcgat catccccctc gtctacgctg aaaagaatca tgtgtcaaga 360
 tccaagcgag gcataagtct ctctgctcaa cctcgacttc tcagctcgct tcagccgcct 420
 tttacgatac ctccatgcaa cctgaatacg agttgcagca atggttcgcc agtaggggga 480
 ttcatacctg atcgctccct gcactcgtagg attacgcagg aatcgagcaa actgggaggg 540
 gacttctt 548

<210> 6681
 <211> 101
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-A12

<400> 6681

gtgggggggt gttttttttt tttttctaaa aagtactctt cttaatttct ggggaaccac 60
 aaacatcaga caaaaacttt attattgaac tataactcat a 101

<210> 6682
 <211> 558
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-A2

<400> 6682

ggggtttggt ttttatcgag ataaatctca atcaatatat tgattatttc taggaaacac 60
 acgtcgggtat gagggcacca ttatcgagta catctcatat gtaatctaaa agaggcacct 120
 ccaacgatgg gttgctgcct cgacaagaca ggatgcatca aagagaactg gttgtatggc 180
 agcaattggt gctgctgtag gaaggcggcg accaatgggt tagccactac caatggatta 240
 agtaactggt gtcgctgttg taggtacgca gcagagttcg acagagtcag ttggttgaat 300
 ggaagcagct gttgcaagta ggcaacaggg tttgccacag ctagttgagt cagagctgg 360
 acaatctggt gcaacaattg ttgttgacagg tatgtagggt cattgcccac agcgagcggg 420

ctagatgaaa gcagttgttg ttgtgtacg taggcggcag gggtcaccat ggctagttga 480
 ctgagcgttg gcagaaactg ttgtagctgt tgttggtgct ggtttgcaac tacgttcgcc 540
 aaagcaagtg ggttggat 558

<210> 6683
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-A5

<400> 6683

ggatctgaag cattgacgtt tctgggccta caaaatttca gccgggttca ggctttcagg 60
 ggggaaaaac ataccatact ggttgccata cactgggtgg aaaccacaaa ctgggaaaag 120
 cctagcgtac accattgggt gtgggtgtgt gggggggggg gcaacattgg cttaagccac 180
 tctaaatcgc caagccttcg ccattttttt cccgagggtt tgagcagcaa ctgcaccccc 240
 cgaggggagc aaaccacaca ctgtttgccg cacccttgaa accattactc ggggcctcag 300
 ggccctccgg acacaatttg ctgccatttc cttggaaaaa actacggggc ggggggggac 360
 tttttttccg ggcaatgggt gccttccttg catttggtt tggat 405

<210> 6684
 <211> 497
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-A6

<400> 6684

gggggtgtgt tttttttttt tttttttttt tttttttttt tttttttttt 60
 tttttttttt ttaaaatcgg gaaagggaac ttcttatttg gggggggccc catacccaa 120
 ccaaaaaatt tattattgaa ttacaactaa aagggggggg aaaagagggc ccccccaatg 180
 atgtgtgggg ggggggaggc cgcccgccct gtcaaagcag gcgggacaaa gggcaacaat 240
 tgggtgaaat agaaaagggg gggggggcta gccccaaact ggtggaaaaa aggcaacaac 300
 cgggtgctgg acaaaaaaga aacacggttt gctgcaccta actggctaaa ggggaatagg 360
 atttgctgga gaaaaaaaac agcgggggtc agggcgccca attggttaaa aggaaaaagt 420

tggtgttgct gaaagtaggc aaaaccacc tggcggaaag ggaaaagggtg gtgctgcaaa 480
 aaaacagcag ggttcaa 497

<210> 6685
 <211> 227
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-A7

<400> 6685

gtgtgtgtgtg ttttttttta tttttttttt tttttttttt tttttttttt tttttttttt 60
 * tttattttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttttt tttttttttt tttttttttt gtggggggggg ggggtttttt tttttttttt 180
 ttttttaaaa aagaaaagga ggggagattt tttttttttt ttaaaaa 227

<210> 6686
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-A8

<400> 6686

gggggggggtt tttttttttt tttttttttt tttattttttt tttttttttt tttttttttt 60
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttttt tttttttttt ttttttttgg gggggggggg gttttttttt tttttttaaa 180
 aaagggtttt ttttttttggg ggggcccccc cacattttta aaaaaattt tttttgggct 240
 ttttacccaa aacccttaaa aaagggggcc cccccgagg gggggggggg ggaaccacct 300
 ttgttttttt aaaaaaaaag gggggtgagg gggaattatt ttttcatttt aaaggggggc 360
 ccccttttag tgtttgcggy ggggaaaaaa caaacattt tttttttttt aaaaaggggg 420
 ggggggccaa aaaaaatttt tggggg 446

<210> 6687
 <211> 569
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-N6-B1

<400> 6687

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caaaaacttt attattgaac tataactcat aagaaactaa agggggcacc accaatgatg 120
ggttggttgtt agaatgctgt tgggtttggg agggggggggg ggttgaatgg cagcaattgt 180
tgcagttgta agaggggtgcc agcggttaggc gcagcgtgct ggtagaacgg caacaattgt 240
ggttggtgtca agaaggtagc aggggtcaca ccagctagct ggctgaatgg tagtagttgt 300
tgctgctgta aataagcagg agagttcaaa gctgtcagtt ggttgaatgg aagaaattgc 360
tgggggtagg cagcagatag ctggctgaat ggtagttgtt gttggtgcaa ataagaagca 420
aagttcaatg cagctagttg gttgaatgga agaaactgtt gttgctgaga ataggcagca 480
aggtttgcta gcacaagttg ttgtaattgt tgtgcccttg atgtttttgt gccataaat 540
gcacccaaag gtaactggtg taataaggc 569

<210> 6688
<211> 512
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-N6-B10

<400> 6688

tcctgcacgc tactaagctt gatccctana cggccggggg gggggggggg tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttg gggaaggga 120
cttcttattt ttgggggggc ccatacatta tccaaaaaat ttttttttgg attaccacta 180
ataatggggg gggggggggg ggcccccaat aatgtgtttt tggtaggagg gtgttggtt 240
tttcaaaaca agttggacaa agggcaacaa ttgttgtatt tttaaaaggg gtgggggggt 300
agcccaaac tggttgtaaa aaggagcaa ctgtggtttt gttaaaaagg aaacacgaat 360
ttgtggaact agcttgtaaa atgggaggag tatttggtgg tgcaaaaaag cagggggggg 420
gattgcgggc caattggtta aatggaaaaa attttttttg ttaaaagtgg gcgataacta 480
gttggtgtaa tgggaaaaat ttttggttga aa 512

<210> 6689
 <211> 203
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-067-Q1-N6-B12

<400> 6689

 gtgtttgttg ggttttgaca ctaacaccag tagtaaaaag taaaatcagt aaccacctgg 60
 aattgctcaa aacaattagt tcatgaatac aacacagtta accacagctt ttaacataat 120
 gtttcnttag ggcgcacagt tntncncett cttacttcat cgtgggggggt ggagtcggcc 180
 ttgctacgct acaggggaac aac 203

<210> 6690
 <211> 522
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-B4

<400> 6690

 gtgggttttt tttttctaaa aatgtacttt cttatttctg ggaagccaca aacatcatcc 60
 aaaaaacttc attattgaag tataactcat aagcaatcta aaagaggcac caccaatgat 120
 ggggttggtg tagaacgctg ttgggtttgt gaaagcaggt tggttgaatg gcagcaattg 180
 ttgcagttgt aagaggggtgc cagcgttagg cgcagcgtgc aggtagaacg gcaacaactg 240
 ttgttgtgtc aagaaggcaa cagggctcac atcagctagc tggctgaatg gtggtagctg 300
 ttgctgttgt aaataagcag cagagttcaa tgctgccagt tggttgaatg gaagaaattg 360
 ctgggggtag gcagcagcta gctgactgaa tggtagttgt tgttgcaa at aagcagcaga 420
 gttcaatgca accagttggt tgaatggaag aaactgctgt tgctgagagt aggcagcaag 480
 gtttcctagc acacgttggt gtagttgttg tgccctgatg tt 522

<210> 6691
 <211> 552
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-N6-B5

<400> 6691

gtggcgcgag ctcatggaga tggaggagga cgtgcagatc gttctgctgg gcacgggcaa 60
gaagaagttc gagcgcatgc tcatgagcgc cgaggagaag ttcccaggca aggtgcgcgc 120
cgtggtcaag ttcaacgcgg cgctggcgca ccacatcatg ggcgggcccg acgtgctcgc 180
cgtcaccagc cgcttcgagc cctgcggcct catccagctg caggggatgc gatacggaac 240
gccctgcgcc tgcgcgtcca ccggtggact cgtcgacacc atcatcgaag gcaagaccgg 300
gttccacatg ggccgcctca gcgtcgactg taacgtcgtg gagccggcgg acgtcaagaa 360
ggtggccacc acattgcagc gcgccatcaa ggtggtcggc acgcccggct acgaggagat 420
ggtgaggaac tgcatgatcc angatctctc ctggaagggc cctgccaaga actgggagaa 480
cgtgctgctc agcctcgggg tcgccggcgg cgagccaggg gtcggaagcg aggagatcgc 540
gccgctcgcc aa 552

<210> 6692

<211> 119

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-B6

<400> 6692

ggttgtgttt ttttttttgt tttttttttt gaaacacttc ataatgcccc attaatgaag 60
gtgatagagt tggtagacata gagatcacac gtgcttgttt tgttggcttt atttttgct 119

<210> 6693

<211> 555

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-N6-B7

<400> 6693

gctgggtttt ttttttttca gaaatatatc gagataaatc tcaatcaata tattgattat 60
ttctaggaaa cacacgtcgg tatgagggca ccattatcga gtacatctca tatgtaatct 120

aaaagaggca cctccaacga tgggttgctg cctcggcagg acaggattca tcaaagagaa 180
 ctggtgtgta tggcagcaat tggtgctgct gtaggaaggc ggcgaccaat gggttagcca 240
 ctaccaatgg attaagtaac tggtgctgct gttgtaggta cgcagcagag ttcgacagag 300
 tcagttgggtt gaatggaagc agctgttgca agtaggcaac agggtttgcc acagctagtt 360
 gagtcagagc tgggtacaatc tggtgcaaca attgttggtg caggtatgta ggtgcattgc 420
 ccacagcgag cgggctanat gaaaacagtt gttgttggtg tacgtaggcg gcaggggtca 480
 ccatggctag ttgactgagc gttggcagaa actgtttag ctggttggtg ttgctgggtt 540
 gcaactacgt tcgcc 555

<210> 6694

<211> 585

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-B8

<400> 6694

gctgggtttt tttttttgac ttaaaaatag atctctaadc ttttattact gagaagttgc 60
 acatatcagt atgagaactt tattattaca gtataaagca taaaaaaatc tagaagatgg 120
 caccaccaat ggtgggctgc tgcaataagg ggggggggatt cgtcaaagca agttgggttaa 180
 atggcagcaa ttgttggtgt tgtaagaagg cgacattggt tgccacatcc tgtgggtaga 240
 atggtagcaa ctgttgctgt tgcaagaagg cgттаатgtt tcccacaacc tgtgggttaa 300
 atggcagcaa ttgttggtgt tggtgcaaga aagcagcaat gtttgccaca acttgtagat 360
 ggaatggaag caactgttgc tgcagtaaga aggcagcagg gctcctgaca agttgggtga 420
 atggtagtag ctgttggtgc tgcaagtaag cagcagggtt caccagct agttgattga 480
 atggaagaaa ttgttggtgc tggaggtaag cagcaagggt cgctgcaact acttgattga 540
 ttgttggaag caactgttgt tgtagttgt gtgctgcgat tcttt 585

<210> 6695

<211> 172

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-N6-C10

<400> 6695

gcgcgtgttg ggggtttttt tttttttttt tttttttttt ttttgaggaa aatctcaatc 60
aatatattga ttatttctag gaaacacatg ccggaatgag ggccccatta tcgagtacat 120
ctcatatgtc acctgaaaca accccnaaat tggggggggg gggggggcaaa cc 172

<210> 6696

<211> 542

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-N6-C11

<400> 6696

gggggggggg ggggtttttt ttcattccaaa aaacttcatt attgaactat aactcataag 60
caatctaaaa gaggcaccac caatgatggg ttgttggttag aactactgttg ggtttgtcaa 120
agcaagttgg ttgaatggca gcaattgttg cgggtggggg gagggggcca gcgttaggca 180
tancgtgcag gtagaacggc aacaactggt gttgtgtcaa gaaggcagca gggctcacat 240
cagctagctg gctgaatggt agtagttggt gctgctgtaa ataagcagca gagttcaatg 300
ctgctagttg gttgaatgga agaaattgct gggggtaggc agcaactagc tggctgaatg 360
gtaattgttg ttgcaaataa gcagcagagt tcaatgcagc cagttgggtg aatggaagaa 420
actgatgttg ctgagagtat gcagcaaggt ttgctagcac aagttgttgt agttgttgtg 480
ccctgatggt ttgtgccacc aaatggacca aggtaactgc tgtaataagg ctgacgggtg 540
tt 542

<210> 6697

<211> 553

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-C12

<400> 6697

gcgcgtggggg ggggtttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt ttttccacc 120

cttttttccc ccccgaaatt cccaaccctt ccctgggggg gggccagttt tccctataat 180
gagccctttt aaaccttggc aaaaaaaaaa aaaaaccttt tcccttttaa aaatttttat 240
cccttcaaaa ttccaaaaaa aaaacaaccg gaaaccaaaa aattaaaacc ctgggggtccc 300
taataagtaa cctaaccac attaatgcg tcccctaac tccccctttt ccaatcgaaa 360
aacctttcgc cccaacttaa taaaaaaatc cccaacccc ccgaaaaaac cttttttctt 420
tttggtcccc agggtttttt ttttttcac caataaaacc gccaacacct tattccccct 480
aaccctcttc ccctaaaaaa ttttcaaaaa ccctcccccc ctggtttccc ccaaaaaaca 540
aaaatccttt tta 553

<210> 6698
<211> 532
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-C2

<400> 6698

ggggtgaaca agcagataag ataaatagtc acattacagc tagctgcaaa aatcgttcat 60
gaattataag catcaggcag acttaaaaac atggtagtct tagaacattg ttctatatcc 120
ttgcagagca actagaaaaa actctcaaca cagcacattc agaggattta tgcgttggca 180
gcagcctggg cagcggcatc ccgcttcctt tgctcttcta tgatgctcag cttgattccc 240
ttgcccttgg gcaggctcac ccacggctta ttacccttgc cgatggtgaa cacgttgccc 300
atacgggtgg cgaactggtg gcccaggag tctccacgt gaatggtctc aaagctgccc 360
ttgtgcttct cctgtttctt gataacacc acgcgggcag tgttccttcc gccagtcacc 420
atgacgacgt tgccaacatc aaacttgatg aagtccacaa tcttgttggc ctccagatcg 480
atcttgatgg tgtcgttggc cttgatgagg gggtcagggt agcggatggt gc 532

<210> 6699
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-C3

<400> 6699

ctaaaaagta ctttcttatt tctgggacgc cacaaactca tccaaaaaac ttcattattg 60
aactataact cataagcaat ctaaaagagg caccaccaat gatgggttgt tggtagaaca 120
ctgttgagtt tgtcaa 136

<210> 6700
<211> 556
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-C4

<400> 6700

gcgcttggtg ttttttttta gaacgataaa tttatgcatg actaactcca caagctccgc 60
aaagaagttt gtagtgaggc tacaggtttg tacacagaag tcaggatggt taaaatgccg 120
tgtacaatct atatgggtca gaaagataac taaaacagag gggggaattt acaatggagc 180
agaggatgat ggagacaatc cagttggtct ccaatctgat tatagaggaa gaaaaaatgt 240
catcgcttgc ggggttaaaga agccgatgac gaaagcagaa gcttcaatat ttaacctctg 300
tacttttcac ctccaaacag taccatgat gagaccaact actccatgca ttagcagata 360
agttgacgct tttacagggc cagataatgt gaatagcagt aaaacagtag ccacggtttt 420
cctgctggct tctagtcccc atcttaatga ggaaatgact atcggcaatg ggaaaaagca 480
actgaaataa ttttcaatgg cgagggaatt gctgaggaag tagggcagcc cagcgacggc 540
cggaacatg gggcac 556

<210> 6701
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-C5

<400> 6701

gctgtggggg tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt aatttttttt 120
tttttttttt tttttttttt ttattttttt atgggggggg gggggggggt ttttttattt 180
atttttaatt tttatgttgt ttagtggttag ttttagaaaa aaaaaaaga ggggggtgtg 240

gggggggggag agagaagaga gaaaaaaaaag attttttgaga gggagaagag agaaaaaaaa 300
 aaaaagagag gccacacaaa agaggggggg ggagaaaaaa aggggaggag tgagaaaaaa 360
 agaa 364

<210> 6702
 <211> 484
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-067-Q1-N6-C7

<400> 6702

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 caaactatca acgaagtata tatgcgataa gccattatta catgatcgac tacgcataac 120
 agagatttgc aacgaggcct tcctccaacn gcttcggggc gggtaggcgg cgatctcnac 180
 gcccttgctg ccgagcgccg acgacggggg cgcctcgtag gcgctgaaaa ggcggtgcga 240
 ggagatgagg gacaggagga tgaaacagag gacggggccg aaggggatgg cgacggagggt 300
 gcgcgcctga cggcagaagc tgccgaaaac gccgcaagct tcaactccacg tcacctcctt 360
 gtcaccgttg taggcgaggg acagcagctc cgccgccgct gcgcccgcg ccaggatcag 420
 ggacgttgaa caccttggtc cgaggagggg agacgagcca tgagcgcgga cacggggggc 480
 aggg 484

<210> 6703
 <211> 201
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-C9

<400> 6703

gtgggtgtgt gttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
 tttttttttt tttttttttt tttttttttt tttttttttt ttttaaaaaa aaaaacctct 120
 aaaacttatt tactgggggg gggcccatat aaacgggggg aatttttttt tcccgggttta 180
 aattataaaa aaattctaaa a 201

<210> 6704
<211> 508
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-D1

<400> 6704

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aattacaact aataagcaat ctaaaagagg caccgccaat gatgtgttgt tggtagaagg 120
ctgctggggtt tgtcaaagcg agttggacaa agggcagcaa ctgttgcagt tgtaagaggg 180
ttgcgggggtt agccacaaac tgctggtaga acggaagcac ttgttgttgt gtcaagaagg 240
aagcgggggtt tggtttagct agctggccaa atggtagtag tatttgctgc tggaaataag 300
cagaggggtt cagtgcggcc aattgggtta atggaagaaa ttgttgcctgc tgagagtagg 360
cagtagctag ctggctgaat ggtagtagtt gttgttgcctg caaataagca gcaggggttca 420
gtatagacag ttggttgaat ggaagaaatt gctgttgcctg aaagtagggg gaaagggttg 480
ccagagctac ttggctgac actggtag 508

<210> 6705
<211> 603
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-N6-D10

<400> 6705

cacgctacta acttggatcc ttagacgccg gcgggggggg ggggtgttaa aagtactttc 60
ttatttctgg ggaagccaca aacatcatcc aaaaaacttc attattgaag tataactcat 120
aagcaatcta aaagaggcac caccaatgat ggggtgttgg tagaaccctg ttnggtttgt 180
gggggggggg ggggggaatg gcancaattt ttgcagttgt aagaggggtgc cagcgtagg 240
cgcagcgtgc aggtagaacg gcaacaactg ttgttgtgtc aagaaggcaa cagggctcac 300
atcagctagc tggctgaatg gtggtagctg ttgctgttgt aaataagcag cagagttcaa 360
tgctgccagt tgggtgaatg gaagaaattg ctgggggtag gcagcagcta gctgactgaa 420
tggtagtgtt tggtgcaaat aagcagcaga gttcaatgca gccagttggg tggaatggaa 480

gaaactgctg ttgctgagag taggcagcaa aggtttccta acacaagttg tngtaattga 540
 ttgtggcctt gatgtttttg tggccaacaa atgcacccaa aggtaacctg ctgtaaataa 600
 ggg 603

<210> 6706
 <211> 506
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-D11

<400> 6706

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 cttataacag tacatactag cagcacaaat ggtcaagggg ggggggggca gacaactcat 180
 cttgcgcccc aacgctcgac ttctgtcaa gcggtcttta ccataccaag gttacacgat 240
 ccatcgatgc aataccattg taggttcttg tttttagtag gcaaacgcag ccgatctata 300
 tgacagaccc atcgttgatg gttgcattct tcaagatcac cacgattcca gaccttatgt 360
 agtacccttc ttccgggtga tcagcctctt ggatgccctt actgtttgtg atcaccacgt 420
 tcttcccaat cctagcattc atgtcaatga tacagttcct tatctttgtg ttccttccta 480
 ttccaactgg gaccttccca gctaac 506

<210> 6707
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-D12

<400> 6707

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 aaattttttt ttctttattt tttaacaccc taaaaccatt aaaaccgcta ttttttcaca 120
 attacacaaa ttcaaaaacc actaatgggg cgcggggggg atttattaat ttctaactct 180
 tattttttca atccaaaaaa aaaaacaaat tttttttctc ctttcaataa aaccccccca 240
 ctttaaaaaa ctcttttaca tccacaaaac tcacaaaata aaaaacccca ctctctcttt 300

actattaatt aaaccatttt acaaatttct ttatccccac cccccaatcc acccctaaat 360
 tccttacctt taccaaaaac cccccacct ttcctatat tcattcacc caccctcta 420
 cataatcatt ttcataacc ccccccttt aaaaatttaa acccctcaca att 473

<210> 6708

<211> 560

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-D5

<400> 6708

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 tttttttttt tttaaattttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttttt tttttttttt tttttttttg tgtttttttt aaaaaaaagg attttttttt 180
 ttggggggggc cccaaaaaaa aaaaaaaaaa attttttttg gggaataaaa ataaaaagaa 240
 aaaaaaaagg ggggccccca agagggggggg gggggggaaa aaaccggggg ggttaaaaaa 300
 aaagggggggg gaaaggggaa aatttgggga aattaaaaag gggggcgaat ttagggggaa 360
 gggtttgga aaaaacaaaa aaatggggg gttaaaaaaga gggggagggg gaaaacaaaa 420
 ataggggggg aaaggggaaa agttggtgtt ggaaaaaaa aaggagaaa ataaagcggc 480
 gcagaggggg gaaaagaaaa aaaaaagtgg gggggggaag aaaaagaaac ggcggaaaag 540
 agggagtttg gtggtgtggg 560

<210> 6709

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-D6

<400> 6709

gagaaaactc atcaattttg attatttcta ggaaacacat gtcggtatga ggg 53

<210> 6710

<211> 552

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-N6-D7

<400> 6710

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atcagacaaa aaactttatt attgaactat aactcataag aaactaaaag agggcaccac 120
caatgatggg ttgttggttag aacgctgctg ggtggggcga gagcgagttg gttgaatggc 180
agcaattggt gcagttgtaa gagggggcca gcgttaggcg cagcgtgctg gtagaacggc 240
aacaactgtg gttgtatcaa gaaggagca ggggtcacac cagctagctg gctgaatggg 300
agtagttgtt gctgctgtaa ataagcagga gagttcaatg ctgccagttg gttgaatgga 360
agaaattgct ggggggagggc agcaggtagc tggctgaatg gtagttgttg ttgttgcaaa 420
taagaagcag agttcaatgc agctagttgg ttgaatggaa gaaactgctg ttgctgaaag 480
tagggagcaa gggtttgcta gcacaagttg ttgtagnntg gtgggccccg atagttttgt 540
gccataaat gc 552

<210> 6711
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-N6-E10

<400> 6711

actaacttgn acctctaaaa cgccgccgtt ttgttatattt ttttttttta tatttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt tttttttttt tttttttttt ttttttttgt ttgcctaaaa ataaatgcag 180
ggggggggggg gggnaantcc ccctaaaaac ctatttaaaa agggccccc ccaaattttt 240
ttttttttta agagcttttt ttttttttta aataaattta gacaaagggc aaaatttttt 300
tttttttaaa aaagtttctg ggtttatcca taaacttttt tttaaaaaga aaattttttt 360
ttttataaaa aaaaaaactc tttttctttt attttttttt taaaaattat ttattttttt 420
tttttaaaat aacctgaata tttt 444

<210> 6712

<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-N6-E11

<400> 6712

accctactt aatcttggga cctctaaaac caccgccctt gtgggggtgtg tttttttaaa 60
aatTTTTTTT tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt ttttttttac 180
aaaaaatagg gggggggggg ggggtttttt tttttnncc cccccctcc tctaaaaaaa 240
attttttttt tttttcccca aaaataaccc ttaaaaaaag acccccccca aaattttgtt 300
ccctttttcc caccctcccc ccctttttccc cccccataat tttccccccc ccccccggg 360
tcccaccctt tttcttttat atttgttttt aaaatccttc aaaaattaat aaaaaatttt 420
tttccctttt aaaaaattttt ccccc 445

<210> 6713
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-E3

<400> 6713

ggtgtttttt tttgtttttt tttttttttt tttttttttt tttttttttt ttattttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tgggggaaaa 120
ataacttttt ttaaacaaaa aaaaaaaggc cccaaaaaaa attccccggg gggggggggg 180
aaaaaaaaaa aaaaacaatg gtttttaaaa aaaaaaaaaa aaaaaaaaaa gggggggggg 240
gcccccccca acacaaaaaa aagggggggg 269

<210> 6714
<211> 569
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-E5

<400> 6714

ggggggggggt ttttttaaaa ctaaaaagta ctttcttatt tctgggaagc cacaaacatc 60
 atccaaaaaa cttcattatt gaagtataac tcataagcaa tctaaaagag gcaccaccaa 120
 tgatgggttg ttggtagaac gctgttgggg ggggcaaagc aagttggttg aatggcagca 180
 attgttgtag ttgtaagagg gtgccagcgt taggcgcagc gtgcaggtag aacggcaaca 240
 actgttgttg tgtcaagaag gcaacagggc tcacatcagc tagctggctg aatggtggta 300
 gctgttgctg ttgtaaataa gcagcagagt tcaatgctgc cagttggttg aatggaagaa 360
 attgctgggg gtaggcagca gctagctgac tgaatggtag ttgttgttgc aaataagcag 420
 cagagttcaa tgcagccagt tggttgaatg gaagaaactg ctgttgctga gagtaggcag 480
 caaggtttcc tagcacaaat tgtttagatt gttgtgcctt gatgttttgt gcccacaaat 540
 gcaccaaagg taactgctgt aatagggt 569

<210> 6715

<211> 79

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-E6

<400> 6715

caattgttca ttcaggtcat tgcttcacac tggaccactg ccacccatgg gtgatgcgtg 60

cacacattta ttactccaa 79

<210> 6716

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-E7

<400> 6716

ggttgtgggg tggttttttt agcagaacaa aagaaagtag ttccatgcat aacgatgttc 60

agcacgagga aagcaggttc acacaagaac aggactgtga ataccccata cacttaaaat 120

tcatgttgca caaagcaaaa taagataggc taaagggggg gggggggatt cccattccaa 180

ctgtagattg gacttaagca acggcctcga ggaaagcctt cccaggagca cgcttctcaa 240

gtcttccatg ggtaccgagc agctttgcgt tgacaccatc aggaacaatt ctaccctcac 300

tcttgtactt caggtagtcg gcacggctga acttggtgaa gcccacttt ctgctctcaa 360
 taatcttttg ggggccaggg aacttgaact tggcgctcg cagagcttca ctggcatgtg 420
 cagcattgtt gtccttgcac cgaacagaaa ggagtacctg accaatg 467

<210> 6717
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-E8

<400> 6717

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 tttttttttt ttgggaccta aaatatagat ctctaactt ttattactgg gaaggtgccc 120
 atatcagttt gggaacttta tttttaccgt ttaaaggggg ggggaatcta aaagatggcc 180
 cccccaatgg ggggctgctg caataagggg ggggggttcg tcaaagcaag gtgggtaaat 240
 gggggcaatt gttgttgttg taagaagggg acattgtttg ccacatcctg ggggtagaat 300
 gggagcaact gttgctgttg caagaaggcg ttaatgtttc cccaacctg gggggaaaat 360
 ggcggaatt gttgttgttg ttgcaagaaa acagcaatgt ttgccacaac ttgtaaatgg 420
 aatggaagca actgttg 437

<210> 6718
 <211> 525
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-E9

<400> 6718

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 tttttttttt tttttttttt tttttttttt tttttttttg ggaacaaaac tttttttttt 120
 tcatttcaat tgggcattca gggcattggg gagggggggg ctggccccc tggggggggc 180
 ggacacattt ttacccaaac atcgccgcta aatgacccaa ctagctagct agcccggggg 240
 ttttctacaa cacatagttt tttcaggggg ggacaccccc cgcagcaacc taggggcatg 300
 gagtcggttt ttgaaagccc cacattgccc taagttggtg ggcttttttg gccgccaaca 360

acccccgaac ctggcccttt ttcggttgct ttttcaagat ggactggagg accaaaccca 420
 aaatcccctg ggacccgggc tgggggtcca cctgcctgag ctgggggggaa cacttgtgcc 480
 ccaacaactg ggacttaggc gaacaatagg ggggtccccct cgggc 525

<210> 6719
 <211> 490
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-F1

<400> 6719

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 ataagaaatc taaaagaggg caccaccaat gatgggttgt tggtagaacg ctgctggggt 120
 tgtcaaagca agttggttga atggcagcaa ttgtggcagt tgtaagaggg tgccagcggt 180
 aggcgcagcg tgctggtaga acggcaacaa ctgtggttgt atcaagaagg tagcagggct 240
 cacaccagct agctggctga atggtagtag ttgttgctgc tgtaaataag caggagagtt 300
 caatgctgcc agttggttga atggaaaaaa ttgctggggg taggcagcag gtagctggct 360
 gaatggtagt tgttgttgtt gcaaataaga agcagagttc aatgcagcta gttggttgaa 420
 tggaaaaaac tgctgttgct gagagtaggc agcaaggttt gctagcacia gttgtttag 480
 ttgttgtgcc 490

<210> 6720
 <211> 496
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-N6-F10

<400> 6720

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 attttatctt ccaaacaaaa aaaaaaccca aagccatta tcaaacattg aaaagtcttc 120
 aaaacctact cccttcattt tacacattgc attttaaagg ttgtttcccc ttnncagctt 180
 tggggggggg ggggggatca tctaaaaacc tattnnncta aaaaaactt cttctctata 240

attcaaaata aggacaagtt tcaattcctt tatgaccaat atttgcttaa caagtccttc 300
 ctggctcttg aagaactagg aactcccagt gcaacaagaa acctttcacc agttctgtaa 360
 ctgtgaggcc acactcttca ccaactgggtg atattctgtg tgcaaatact tttttgcatt 420
 ttctgaacca ggttgcccca gccattcctc atataatfff ttcccaatag ggttaccgaa 480
 aggatcagat attaat 496

<210> 6721
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-F2

<400> 6721

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 tttttttttt tttttattta taattttttt ttttaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaatttgggg aaaaaaaaaa aaaaagagaa attgttaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggaaaaaaaa ataaaaaaaa 240
 aaaaaaatga ggaaaaaaaaag aaagatggga aaaagaaaaa ggaagaaatt ctttgggggg 300
 ggaaaatfff taaaggaagg aaaaaaaaga aaaaaaaaaa aaaagacggg ggggccaaga 360
 aagaaaaaaa aaaaaagagg gaggagaaaa aaaagaaggg ccgcgcgggg gaaaaatggg 420
 ggggccggac cgggggggg 438

<210> 6722
 <211> 157
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-F3

<400> 6722

agaaattcga tcaatcgcta tcaataccag gaggcagatc aagattcatg gggaacgaga 60
 accttttccg agaagagtca agcgagggat aggatagatg acccacaacg ttccgaaaca 120
 aaaaacatgc ttagagtffa ggcagcaatt gcacgca 157

<210> 6723

<211> 570
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-F5

<400> 6723

gaaatatatt gagataaatc tcaatcaata tattgattat ttctaggaaa cacatgccgg 60
aatgagggca ccattatcga gtacatctca tatgtaatct aaaagaggca cctccaacga 120
tgggttgctg cctcgacaag gacagggttt atcaaagaga actggttgta tggcagcaat 180
tggttgctgct gtaggaaggc agcgaccaat gggttagcca ctgctagtgg attaagtaac 240
tggtgtcgct gttgtaggta cgcagcagag ttcgacatag tcagttgggt gaatggaagc 300
agctgttgca agtaggcagc agggtttgcc acaactagct gagtcagagc tgggtacaatc 360
tggtgcaaca attgttggtg caggtatgta ggtgcattgg ccacagcgag cgggctagat 420
gaaagcagtt gttgctgttg taggtaggcg gcagggttca ccatggctag ttgactgagc 480
gctggcagaa actgttgtag ctgttggtgt ggctgggttg caactacgtt tgccagagca 540
agtgggtttg atgcaagcaa ctgctgttgc 570

<210> 6724
<211> 530
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-N6-F7

<400> 6724

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ggcaacataa caacaacgtc caagactttt tctttttcac agaagcttag tgtatgatga 120
cgaacagaac aaaaaacaac acaatgatac tgcgtgagtg ggggtttttc ccgccttttg 180
tgttctttga actgccaccg ggattgggag ctggctcctg cttctttgtc cttccgtgat 240
gcttggaac tagctctgct acttgatca tcagctgctt cttcgtttta atagcaggat 300
tgacggggga gccgtcatct ttcttaagct gcaccctgac cctccccacc tggaagaaat 360
cccaggggta cgccttatcc aactcgatgg cgtgggggat cttgaggtgc gaacagcagt 420
cagcgatctc natgcaggtg gggccggggc aggccttggc agcggcgatg cggcgggcct 480

cggcgaccgt cttcttggag ttgaggtaga cagggtagat gatgttccac 530

<210> 6725
<211> 581
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-F8

<400> 6725

gcgtgggggg tttttttttt taagaaaaac tgaacaaata tatagtagag tcccaaactc 60
cgttgcattt tcgataagtt acagttcacg atcgaggct gacagccacc acttcccagg 120
caagttatgt ttccccacgt ttataagcaa attcgagggt gtgccaacag tttgggtgaat 180
gaattgagca ggagtgccaa tatcaggccc tgggcgtcga gctgaccgag ataaatcatg 240
tttgtacagc ccaaccattg tttggagatg catctccccg ttgttcatct tttacgctgg 300
acgagtcctt tctcagtcag atattccaca aattcgtcta tgaggtaggg ccaggcacct 360
tcgtcgtcgt agttggataa ctgtggatcg gtcgtcttca caaattccag cagctgggac 420
catgtgtctc tagatatggc tttatttgtt ctgacctgta aaaactgaca ccaatgatcc 480
agaagaggcc agttcctttc agcaaatagc aactgccaca ttccaataga agtctccagt 540
gagagagact tttgaccctt ttcccttgcc caagtgaatg c 581

<210> 6726
<211> 529
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-G1

<400> 6726

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atatattgat tatttctagg aaacacatgc cgctttgagg gcaccattat cgagtacatc 120
tcatatgtaa tctaaaaaag gcacctccaa cgggtgggttg ctgccacaac aaggcagggt 180
tcatcaaaaa gaactgggtg tatggcagca attgttgctg ctgtaggaag gcagcgacca 240
atgggttagc caccgctagt ggattaagta actgttgctg ctgttgtagg taccagcaa 300
agttcgacac agtcagttgg ttgaatggaa gcagctgttg caagtaggca gcagggtttg 360

ccacaactag ctgagtcaga gctggtacaa tctgttgcaa caactgttgt tgcaggtagg 420
taggtgcatt aaccacagcg agagggctag atgaaatcaa ttgttgctgt tgtaggtagg 480
cggcaggggtt caccatggct agttgactga acgctggtag aaactgtgc 529

<210> 6727
<211> 578
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-N6-G10

<400> 6727

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cacatgccgg tatgagggca ccattatcga ttacatctca tatgtaatct aaaagaggca 120
cctccaacga tgggttgctg ccacnacaag gggggggggg ggggaagana actggctgta 180
tggtaccaat tggtgctgct gtaggaaggc agtgaccaat gggtaggca ctgctagtgg 240
attaagtaac tggtgtcgt gttgtaggta cgcagcagag ttcgacacag tcagttgggt 300
gaatggaagc agctgttgca agtaggcagc agggtttgcc acagctagct gagtcagagc 360
tggtacaatc tggtgcagca attgttggtg caggtaggta ggtgcattac ccacaacgag 420
agggctagat gaaagcagtt gttgctggtg taggtaggcg gcagggttca ccatggctag 480
ttgactgagc cctggcaaaa actgttgcaa ttgttggtgt tggtgggtat gcagctacct 540
ttgcaaaaac cagtgggttg ggatgcaaac acctgctg 578

<210> 6728
<211> 572
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-067-Q1-N6-G12

<400> 6728

gggggggttgt ggggggtttt ttaaaaagta ctttcttatt tctgggacgc cacaacatc 60
atccaaaaaa cttcattatt gaactataac tcataagcaa tctaaaagag gcaccaccaa 120
tgatgggttg ttggtagaac actgttgagt ggggcgaggg ggggtgnttg aatggcagca 180

attgttgcag ttgtaagagg gtgccagcgt taggcatagc gtgcaggtag aacggcaaca 240
 actgttgttg tgtcaagaag gcagcagggc tcacatcagc tagctggctg aatggtagta 300
 gttgttgctg ctgtaaataa gcagcagagt tcaatgctgc tagttgggtg aatggaagaa 360
 attgctgggg gtaggcagca actagctggc tgaatggtaa ttgttgttgc aaataagcag 420
 cagagttcaa tgcagccagt tggttgaatg gaagaaactg atgttgctga gagtatgcag 480
 caaggtttgc tagcacaagt tgttgtagt gttgtgccct gatgttttgt gccaccaa 540
 ggaccaaagg taactgctgt aatagggtg ac 572

<210> 6729
 <211> 472
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-067-Q1-N6-G2

<400> 6729

aacaaagatg acagatgcca tgccataaat catgtcaata tatgtgcatg ctngaaccaa 60
 taacangaaa atacaattgg aaaaaacaaa atcatcagaa cacttggctt atgctataaa 120
 aattcttttt atgcttcttt gtagtgcttc tttgtagctt atacatagtt cctccgtatg 180
 cttttatgat tccttataga atgaaggagc accctaattt gcatcatgtt cctgaccagc 240
 atagccctca ccccaacttg gcattccgcc gttgcatctc atcaactcct cgagctgcaa 300
 gcaatactgg aagtagcact ccagccctgc gcgaagaact ctcaccaag tgcttgatcc 360
 atcccagctc gccgcagctg tgttttgata tagtattttc ttattaatgt catccacac 420
 attcacaaat ctatcacacc ctccggtggc aaacattcca aagctgcaca ag 472

<210> 6730
 <211> 547
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-G3

<400> 6730

aattgtgagt tatttggatt tcatgtcaag ggagatcgag acaaccagcc ttattcagcg 60

acgcctgcaa ataaaatggt cccagcgatc acgaaacccg cagtgcctaa tacatgtcca 120
 tgtgtatggc cccatttggga cccagcagct cataatcctg cggcggcggt gtagatccgg 180
 aggcggaggt cggcggcatg gatcccatcg ccgtctggat gagctccatg gcccccgcg 240
 aatgcgtggc tgctgtact cggttcatct ctgtggcgct cagagttcca ccgacgacca 300
 tggatgcagg ctcttgatga gcttgcatc gcaagaaacc gttgccgacc gaagcatggt 360
 cgtctgcggc tgtggcggag aagtagccga cgatgctgtc tcggataggc ggcggcgga 420
 ctggagcgtc ggagctgggg gtcggcgccg agatgggcat ggacgacggc actgatgagc 480
 tcactcttat caccgccttc agggagtcct ctcccatctt caccttagct gttagggctt 540
 ccatgtc 547

<210> 6731
 <211> 554
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-G5

<400> 6731

ctaaaaatgt actttcttat ttctgggacg ccacaaacat catccaaaaa acttcattat 60
 tgaactataa ctcataagca atctaaaaga ggcaccacca atgatgggtt gttggtagaa 120
 cactgttggg tttgtcaaag caagttgggt gaatggcagc aattgttgca gttgtaagag 180
 ggtgccagcg ttaggcatag cgtgcaggta gaacggcaac aactgttggt gtgtcaagaa 240
 ggcagcaggg ctcacatcag ctagctgggt gaatggtagt agttgttgct gctgtaaata 300
 agcagcagag ttcaatgctg ctagttgggt gaatggaaga aattgctggg ggtaggcagc 360
 aactagctgg ctgaatggta attgttggtg caaataagca gcagagttca atgcagccag 420
 ttggttgaat ggaagaaact gatgttgctg agagtatgca gcaaggtttg ctagcacaag 480
 ttgttgtagt tgttggtccc tgatgttttg tgccaccaa tggaccaaag gtaactgctg 540
 taatagggtc gacg 554

<210> 6732
 <211> 533
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-G6

<400> 6732

cctacaatcc tgcctcgaca tttattagct tacacacaca caccaaaaac cagatttaga 60
aggcaaggta ctgaacagtg ctgccaaaac accatgcata gtcccccatc atttatcgat 120
gcctagatTT tgtctacaca aaactgaggt gaccagcgct tcctgctaag gggctgagggc 180
aaattaatgt cgtcaccaac tgttccttga tcctgagggg tcacagaaat ataggcgaaa 240
gaacctgata tccacctggg ctaggggaagg atggcagggc tgatatccca aatatccttg 300
gcgtactcat gaatcgctct atcgctgctg aacttgatg agccagccgt gttgaggata 360
gacatccttg tccataactt ctgatctcgg tacgcctcat caactttttc ttggcattca 420
atatagctgg ggaagtcctt gccacaagg aaataatctg cacgtccgta accttcattt 480
ccttccaaaa aacccatcaa ttcatcatag ctgtaagtcc caaaaacacc act 533

<210> 6733

<211> 576

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-G7

<400> 6733

ggggggtggg ttttttcaga aattatcgag ataaatctca atcaatatat tgattatttt 60
taggaaacac atgccgctat gagggcacca ttatcgagta catctcatat gtaatctaaa 120
agatggcacc accaacgatg ggttgctgcc acgagggggg agggttcatc aaagagaact 180
ggttgatatg cagcaattgt tgctgctgta ggaaggcagc gaccaatggg ttagccaccg 240
ctagtggatt aagtaactgt tgctgctggt gtaggtacgc agcagagttc gacacagtca 300
gttggttgaa tggaagtagt tgttgcaagt aggcagcagg gtttgccaca gctagctgag 360
taagagctgg tacaatttgt tgcagcaact gttgttgcaa caactgttgt tgcaggtatg 420
taggtgcatt gcccatagcg agcgggctaa atgaaagaag ttgttgctgt tgtaggtagg 480
cgataggggt caccatggct agttgactga gcgctggtag aaactgttgc aactgttggt 540
gttggttgta tgcagctacg tttgccaaaa caaggg 576

<210> 6734

<211> 536
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-G8

<400> 6734

gggagtgggg gcccttctgc tcttcagcc tgccgatgaa cgccaccagc gggatgttcc 60
ggtccaccgg gagcccgacc tccgctgca gcgcctcctt gttcagcgcc ttggcgctcc 120
acggcgccgt cgacaccgtc gtaccttcac gggcggtggg gggggggcct gctggggctcc 180
cactcgctga cgtccatgcc gttgacgatg ccggtgatgc cggtgaggcg catgatgttg 240
tcgagctcgc agccccctggc gatgccggag atgagctcct cggcgtagta ggggctgacg 300
gtgaggaccc tgtcggcctc gaggatcccg gccttcaccc agttgatctt ccggccttcc 360
acgggcttct cgtagccgtc gatgaaatcg aaggacgact tgaatctctc cgggagggttc 420
agctccgggt agtcggagaa ggcgaaccgg ccctggtagg agatgttggtg gatgcagaaa 480
gcggtctttg cgtccctgta gatgccgtgg gactggtagt tgctcttgag gtagca 536

<210> 6735
<211> 543
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-H11

<400> 6735

gggggggtgt gttttttttt ttttttttca gacaaaaact ttattattga actataactc 60
ataagaaact aaagggggca ccaccaatga tgggttggtg gtagaacgct gctgggtttg 120
tcaaagcaag ttggttgaat ggcagcaatg gggggggggg taaaagggtg ccaccgttag 180
gcgcagcgtg ctggtagaac ggcaacaact gtggttgat caaaaaggta gcagggtca 240
caccagctag ctggctgaat ggtagtagtt gttgctgctg taaataagca ggagagtcca 300
atgctgccag ttggttgaat ggaaaaaatt gctgggggta ggcagcaggt agctggctga 360
atggtagttg ttgttggtgc aaataagaag cagagttcaa tgcagctagt tggttgaatg 420
gaagaaactg ctgttgctga gagtaggcag caagggttgc tagcacaagt tgttgtagtt 480
gttgtgccct gatgttttgt gccataaat gcaccaaag taactgatgt aatagggctg 540

atg

543

<210> 6736
<211> 540
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-H12

<400> 6736

ttttattaaa aaattttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
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tttttttttt ttttttttgt gggggggggg ggaaaatttt tttttcccc cccccctttt 180
tttaaaaaaa aaaaaaaaaa caattcccc ccatttccaa cccccctttt caaaaccttt 240
taaccccaaa aaaatttacc ttccctcccc cccccaattt aaattttttt tttttttccc 300
ccccaccccc ccaaaaaaaa aaaaccaact tttttttcaa aaatttccct aaaaaaaaaa 360
atcttttccc ccctttcatt taaaataacc cttttttttc ctttttttaa taaaaccccc 420
cccttttttt ccttttcccc accaaaaaat tttttttttc cccttttttt cccccacaaa 480
accccccttt tttttttttt aaaaaaattt ccccttcttt aaaaaaaccc cccctctttc 540

<210> 6737
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-N6-H4

<400> 6737

gggggggggg ggggtttttt tttttttttt tttttttttt tttttttttt ggaggaaagc 60
cgcatcacct taacatactt tggcgacaat agccgaactg ggttaccag acaatggata 120
acatattctg ttgacggaaa aaaaaagaag aggggggggg gcaaaccgga ggacaacatg 180
ctatgtttac agacacgaaa ctggtttcac aaaaacaaaa acaaaaaaga agcaaagtgt 240
cggggaagta aataacaaaa gggccatatg caagggcggt tttcagcttt gtttgctgag 300
gaaaatggcg atggggtcgc ccggtgaagg tgggtttttt tccagcagcg aagcatgttc 360
accagcctta gcgcgagcag cttcttccga cgcggagagg acctnactt gcttaagggc 420

cagctggcctt ttgatcaact ccaag

445

<210> 6738
<211> 512
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-H5

<400> 6738

gggggggggg gtgggttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt cggggaaacc cgccccaaaa tcattattta tccgacaaga 120
tcatttttgt taaacagttc gaaaaaaggg gggggggggg gggggaaaaa acctgggcac 180
agcatacaaa acgacatgct cacaaaagca gttcaaaaaa agggggggct tccatgggcc 240
aaaatcaggc caacgagagc tctccagggg gaaaatttct ttttaccaat ttctcccatg 300
attcgggggg ctcttgaagg accctcaagg ggtattcctt gcttgggggc ttgttgccca 360
aaccaaattt ggggggaggc tttccatcag ggattttgga gtctctgaac caatctttga 420
ggggagtcag tggccccgga aaagctttta aacatcatcc acgtggttca caaaaaatgc 480
tttggggtca tccaaaaaaa ggccacaatt tt 512

<210> 6739
<211> 561
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-H6

<400> 6739

ggttggtttt tttggaaatg taactttctta tttctggttg gccacatata tcatccaaaa 60
aactttatta ttgaattaca actaataatc aatctaaaag aggcaccacc aatgatgtgt 120
tgttggtagg aggctgctgg gtttgtcaaa gcaagttgga caaagggcaa caattggtgt 180
agttgtaaga gggttgcggg gttagccgca aactgcttgt agaaaggcag caactggtgc 240
tgtgtcaaga aggaagcacg acttgctgca gctagctcgc taaatggcag tagtatttgc 300
tgctgcaa at aagcagcggg gttcagtgcg gccaatgggt taaatggaag aagttgttgt 360
tgctgagagt aggcagtagc tagctggcta aatggtaata gttgttgctg caaataagca 420

gcaggggttca gtgtagacag ttgggtgaat ggaagaaatt gttgttgctg agagtaggga 480
gaaaggtttg ccagagctac ttgggtgatc acaggtagca cgagttgctg cagctgttgt 540
gccctgatgg tttgtaccaa t 561

<210> 6740

<211> 494

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-067-Q1-N6-H7

<400> 6740

gcgtgggtgt ggtggtgta ttgaaataaa tctcaatcaa atattgatta tttctaggaa 60
acacatgccg gaatgagggc accattatcg agtacatctc atatgtaatc taaaagaggc 120
acctccaacg atgggttgct gcctcaacaa ggcgggggtgg ggggaaagaa aactggttgt 180
atggcagcaa ttgttgctgc tgtaggaagg cagcgaccaa tgggttagcc actgctagt 240
gattaagtaa ctgttgctgc tgtttaggt acgcagcaga gtctgacata gtcagttggt 300
tgaatggaag cagctgttgc aagtaggcag cagggtttgc cacaactagc tgagtcagag 360
ctggtacaat ctgttgcaac aattgttgtt gcaggtatgt aggtgcattg gccacagcga 420
gcgggctaga tgaaagcagt tgttgctgtt gtaagtaggc ggcaggggtc accatggctt 480
agttgactga gcgc 494

<210> 6741

<211> 575

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-067-Q1-N6-H8

<400> 6741

gggggggggtg tttttttttt tttatatcga ggaaaatctc aatcaatata ttgattattt 60
ctaggaaaca catgtcggta tgagggcacc attgtcgagt acatctcata tgtaatctaa 120
aagaggcacc tccaacgatg ggttgctgca gggggggggg gatcaaaaag aactggttgt 180
atggcagcaa ttgttggtgc tgctgcagga aggtagcgac caatgggtta gccactgcca 240

atggattaag taactgttgt cgctgttgta ggtaccagc agagtttgac acagccagtt 300
 ggttgaatgg aagcaactgt tgtaagtagg cagcagggtt tgccacagct agctgagtca 360
 gagctggtac aatttgttgc agcaactggt gttgttaggta cgtaggtgca ttgcccaccg 420
 cgagcgggct agatgaaagt agttgttagt agacggcagg gttcaccatg gctagttgac 480
 tgagcactgg cataaactgt tgcagctggt gttgttgctg gtatgcanct accttcgcca 540
 gagcaagtgg ggttggatgc aagcagctgc tgttg 575

<210> 6742
 <211> 609
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-K6-A10

<400> 6742

gcaacatana agtggaaatcc agtagcaaca acanagcaac aatggcgacc aagatatttt 60
 cctccttat gtccttgcct ctttctgcat gtgttgctaa cgcgacaatt ttccctcaat 120
 gctcacaagc tcctatagct tcccttcttc ccccatacct tccatcaatg atagcttcag 180
 gatgtgaaaa cccagctctt cagccctata ggctccaaca agcaatcgca gcaagcaaca 240
 tacctttatc acccttggtg tttcaacaat cgccagccct atctttggtg cagtcattgg 300
 taaaaacat cagggcacag cagctgcagc aactcgtgct acctgtgatc aaccaagtag 360
 ctctggcaaa ctttctccc tactctcagc aacaacaatt tcttccattc aaccaactgt 420
 ctacactgaa ccctgctgct tatttgcagc aacaactatt accattcagc cagctagcta 480
 ctgcctactc tcagcaacaa caacttcttc catttaacca attggccgca ctgaaccccg 540
 ctgcttattt gcagcagcaa atactactac catttagcca gctagctgca gcaaaccgtg 600
 cttccttct 609

<210> 6743
 <211> 612
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-A2

<400> 6743

cgttcgcaca tcccgtcgct cccctcccatg ggggcgtgtg gtcgtccgcc gattcgatcc 60
 gggttcttcca acccagggct gtgatggcga cgaagaggag cgtgggcacc ctcggcgagg 120
 cggatctgaa ggggaagaag gtgttcgtgc ggcgcgacct caacgtccct ctcgacgacg 180
 cccagaagat caccgacgac acccgcatcc ggcctccgt cccaccatc aagttcctcc 240
 tcgagaaggg cgccaaggtc atcctcgcca gccacctggg tcgtccaaaa ggtgtcacc 300
 caaagtacag cttgaagcct cttgttccac gcttgtctga gtccttga gttgaagtcg 360
 tgatggccaa tgattgcatt ggtgaggaag ttgagaagtt ggctgccgct ttgccagaag 420
 gtggagttct gtcctagag aatgttagat tctacaagga ggaagagaag aacgaacctg 480
 agtttgctaa gaagctagca tctgttgctg acctttatgt caatgatgct tttggcacgg 540
 cacacagagc tcatgcttca accgaaggag ttaccaagta tttgaagcct gctgttgctg 600
 gcttctcat gc 612

<210> 6744

<211> 609

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-K6-A4

<400> 6744

cttntaaagc aaagtaaata attctccaaa caattttaac taggtaacat tcaaagaaaa 60
 gtgttgatg ctctagttct ggttacttaa ggctgtagat tatgacttat ggtattctct 120
 accttgtttc ttacagttc atggtgttga gtatgcattt ggagcacatg actattcgat 180
 tagtggagtt tttgaggtgg aacctcggca gtgtcctggg ttcaaatttc ggaaatcaat 240
 atgcatggga actaccagcc tggatcctct ccaaatacaga gagttcatgg agattcagtc 300
 agtaaattac aatggtgata cctaccattt gataagtaaa aactgcaacc atttctgtga 360
 ggatatctgc aaaaggttga caggaaattt tattccaaaa tgggtgaatc gacttgctag 420
 aatgggtgct gtttgcaact gcattctacc agagtccctc aagatcaacg cggccggtca 480
 tgaccagct tctcgagctg aagatagcga gagaaaaatg ctgacaagtt ccttcagttg 540
 cttctgttca atctctctat gccaaagaca tttctcaaca tcttcgccgt ctctgcgttc 600

ctccgcgaa

609

<210> 6745

<211> 602

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-K6-A5

<400> 6745

tttgnagacc aactagcaac ataggaggcg gggggggggac caacaatggc agccaaaatt 60

tttgctcct tatgctcctt ggtctttctg caagtgtgc tacggcgacc attttcccgc 120

aatgctcgca agctcctata gcttcccttc ttcccccgta cctctcacca gcggtgtgtg 180

gggggggtgtg aaaacccaat tcttcaacct tacaggatcc aacaggcaat cacagctggc 240

atcttacctt tatcaccctt gttcctccaa caatcatcag cctattaca tcagttacct 300

ttggtgcatt tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca 360

aaccttgctg cctactctca gcaacagcag tttcttccat tcaaccaact agctgcattg 420

aactctgctt cttatttgca acaacaacaa ctaccattca gccagctacc tgctgcctac 480

ccccagcaat ttcttccatt caaccaactg gcagcattga actctcctgc ttatttacag 540

cagcaacaac tactaccatt cagccagcta gctgggtgtga gccctgctac cttcttgata 600

ca 602

<210> 6746

<211> 613

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-K6-A6

<400> 6746

nagnaggtca tgctccagtg cattcagggg aggggtgggag tctgtgaggc cggagccaca 60

ggctcctttg gaagactaca ggctccatct tgagattttg cctctacagt tgcattctga 120

tcaagagcaa cttaacttcc taataaattt cttcaagaat gattcatgta acaatgatcc 180

tgatgggcat tgcgaaaatg atactgttga tgtgaagagc acaagcaatg gaagcaatat 240

gggtgtggat gaggcattac ttcctttctt tcagaaattt gacgtaaagc cacttattct 300
 gcacattaat tatatacccc gtcagtttga cccgattgcc ctaagcaagg gaaattacgc 360
 agaacttctc aacattcttc catggaaggg aattgatttg aagcttaagc atgtttctgc 420
 aatgggcatt tacggatgga acagcatagg tgatacggta gcagcggaat gggtggaaga 480
 catttctaaa aatcaggtgc acaaattgct aaaagggctt cctccaataa gatcactagt 540
 tgctgttggt tcagggacca gaaagttggt ctcgttgcc atcaaaagct acaagaagga 600
 tcggaaattg ctc 613

<210> 6747
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-A7

<400> 6747

tgatcagtgc agcccgacgc gacgcgtgt ggggtggggct catgccagtc gttgcggcag 60
 cagtgttgcc agcagctcag gcaggtggag cgcagcacc ggtaccaggc gatcttcggc 120
 ttggtcctcc agtccatcct gcagcagcag ccgcaaagcg gccaggtcgc ggggctgggg 180
 ggggggcaga tagcgagca actgacggcg atgtgctggc tgcagcagcc gactccatgc 240
 ccctacgctg ctgccggcgg tgtccccac tgaagaaact atgtgctgta gtatagccgc 300
 tggctagcta gctagttgag tcatttagcg gcgatgattg agtaataatg tgtcacgcat 360
 caccatgggt ggcagtgtca gtgtgagcaa tgacctgaat gaacaattga aatgaaaaga 420
 aaaaagtatt gttcc 435

<210> 6748
 <211> 618
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-K6-A8

<400> 6748

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 ttccctcctt gccctccttg ctctttcagc aagcgctgct acctctacta ttattccaca 120

atgctcacia caatacctct ctccggtgac agccgcggga tttcaacacc caactatgog 180
 ggggggggtg ctacatgagg ccatcgtagc aagcatctta cggtcattag cattaaccct 240
 ccaacagcca tatgccctat tgcaacaacc atccttagtg catctgtatc tccaaagaat 300
 cgcgacacia caactacaac aacagttgct accaacaatc aatcaagtag ttgcagcgaa 360
 ccttgctgct tatctccagc aacaacaatt tcttccattc aatcaactag ctgggggtgaa 420
 ccctgctgtc tacttgaggg cacaacaact actaccattt aaccaacttg tegggagccc 480
 tgatgccttc ttactgcaac aacagcttct gccattccat ctgcaagctg tggaaaacat 540
 tgcttctttc ttgcgacaac aacaattggt gccattttac ccacaggttg gggggaaaca 600
 ttaatgcctt cttgcaac 618

<210> 6749

<211> 616

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-A9

<400> 6749

gccctcactg gtgctcctcc aggtgccaga tggccaacgc aaattgcacc aagaaatcca 60
 tcgagaggcc gtcgacaggg gaattaatgg cgtcgtcgtc tagcagcagc caccgccgcc 120
 tcatectcgc agccgccgtc ctgctctccg tgctcgcggc tgccagcgcc agcgccgggg 180
 ggggggtgct gccgggggtg gccatcccg cacaaccgct cccgagctgc cgctggtacg 240
 tgaccagccg gacctgcggc atcgggccgc gcctcccggt gccggagctg aagaggagat 300
 gctgccggga gctggcgga atcccgcggt actgccgggt cacggcgctg agcatcctca 360
 tggacggcgc gatcccgccg ggcccggaag cgcagctgga gggccgccta gaggacctgc 420
 cgggctgccc gcgggaggtg cagaggggat tgcgccccac cctcgtcacg gaggccgagt 480
 gcaacctggc caccatcagc ggcgtcgccg aatgcccctg gattctcggc ggcggaacga 540
 tgccctccaa gtaactgcga agagcatagt gcatgaggaa tgagcttgta gctagctcat 600
 atgtctgaat aataag 616

<210> 6750

<211> 196

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-K6-B11

<400> 6750

tgccgttcta ccancaccct tencctaacn ctggcaccct cttacaactg caacaattgc 60
 tgccattcaa cctttttttt ttttcaaacc tancantgtt ctaccggcgg gcgctgattg 120
 ntggtgccct cttttagaaa tgtactttct tattttctaaa aaaccacaaa catcagacaa 180
 aagaaagtac atttct 196

<210> 6751
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-068-Q1-K6-B12

<400> 6751

cccggtcgac ccagcgtccg caacaactgc tttcatctag cccggggggg ggggggggtg 60
 cacctacata cctgcaacaa caattgttgc aacagattgt accagctctg actcaactag 120
 ctgtggcaaa ccctgttgcc tacttgcaac agctgcttcc attcaaccaa ctgactctgt 180
 cgaactctgc tgcgtaccta cagcagggac aacagttact taatccattg gtagtggcta 240
 acccattggt cgccgccttc ctacagcagc aacaattgct gccatacaac cagttctctt 300
 tgatgaatcc tgtcttgtcg aggcagcaac ccatcgttgg aggtgccatc ttttagatta 360
 catatgagat gtactcgata atggtgccct cataccgacg tgtgtttcct agaaataatc 420
 aatatattga ttgagattta tctcg 445

<210> 6752
 <211> 129
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-068-Q1-K6-B2

<400> 6752

gcaacaattg ctgccattca accaattgct ttgacaaacc cagcagcggt ctaccaacaa 60

cccatcattg gtggtgccct cttttagatt tcttatgagt tatagttcaa taataaagtt 120
 ttttgtctg 129

<210> 6753
 <211> 614
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-B3

<400> 6753

tccgccagtc ttcattgggt tcgaacacct agctgtgcaa gcctacaggc tacaacaagc 60
 gcttgccggcg agcgtcttac aacaaccaat taaccaattg caacaacaat ccttggcaca 120
 tctaaccata caaaccatcg caacacaaca gcaacaacag ttcctaccag cactgagcca 180
 actagatgtg gtgaaccctg tcgcctactt gcaacagcag gtgcttgcac ccaaccact 240
 tgctctggca aacgtagctg cataccaaca acaacaaca ttgcaacagt ttctgccagc 300
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 atctagccct ctggttgtgg gtaatgcacc tacatacctg caacaacaat tgctgcaaca 420
 gattgtacca gctctgactc agctagctgt ggcaaaccct gctgcctact tgcaacagct 480
 gcttccattc aaccaactga ctgtgtcgaa ctctgctgcg tacctacaac agcgacaaca 540
 gttacttaat ccactagcag tgccctaacc attggctcact gccttcctac agcagcaaca 600
 attgctacca taca 614

<210> 6754
 <211> 596
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-B5

<400> 6754

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 cagccaagta gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt 180
 caaccaactg gctacactga accctgctgc ttatttataa caacaacaac tactaccatt 240

cagccagcta gctactgcct actctcagca gcaacaattt cttccattta accaattggc 300
 cgcaactgaac ccctctgctt atttccagca gcaaatacta ctaccatttg gccagctagc 360
 tacaacaagc cccacttcct ttttgaaaca acaacaattg cttccgttct accagcagtt 420
 tgtggctaac cccgcaaccc tcttacaact gcaacagttg ctgccctttg tccaacttgc 480
 tttgacaaac ccagcagcct tctaccaaca acacatcatt ggcggtgcca tcttttagat 540
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<210> 6755

<211> 618

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-B6

<400> 6755

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 ctttctgcaa gtgttgctac cgcaaccatt ttcccacaat gtcacaagc tcctatagct 120
 tcccttcttc ccccatacct ctcaccagcg gtgtcttcaa tgtgtgaaaa.cccaattggc 180
 caaccctaca ggatccaaca ggcaatcgca acaggcatct taccattatc acccttggtc 240
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 atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgcata ctctcagcaa 360
 catcagtttc ttccattcaa ccaactggct gcattgaact ctgctgctta tttgcaacaa 420
 caattaccat tcagccagct agttgctgcc tccccccagc aatttcttcc attcaaccaa 480
 ctagcagcat tgaactctgc tgcttattta cagcagcaac aactactacc attcagccag 540
 ctagctgatg tgagccctgc tgccttcttg acacaacaac agttgttgcc gttctacctg 600
 cacgctatgc ctaacgct 618

<210> 6756

<211> 617

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-B9

<400> 6756

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ctacttgcaa gagcagctgc ttgcatccaa cccacttgct ctggcgaacg tagttgcaaa 120
ccagcaacaa caacagctac aacagtttct gccaacgctc agtcaactag ccatggggaa 180
ccctgccgcc tacgtacaac aacaacaact gctttcatct agcccgtctg ctgtgggcaa 240
tgcacctaca tacctgcaac aacaattggt gcaacagatt gtaccagctc tgactcaact 300
agctgtggca aaccctgttg cctacttgca acagctgctt ccattcaacc aactgactct 360
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tttgatgaat cctgtcttgt cgaggcagca acccatcggt ggaggtgcca tcttttagat 540
tacatatgag atgtactcga taatggtgcc ctcataccga cgtgtgtttc ctagaaataa 600
tcaatatatt gattgag 617

<210> 6757

<211> 565

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-C10

<400> 6757

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accttccatc aatggggggg ggaggatgtg aaaaccagc tcttcagccc tataggctcc 180
aacaagcaat cgcagcaagc aacatacctt tatcaccctt gttgtttcaa caatcgccag 240
ccctatcttt ggtgcagtca ttggtacaaa ccatcagggc acagcagctg cagcaactcg 300
tgctacctgt gatcaaccaa gtagctctgg caaaccttcc tccctactct cagcaacaac 360
aattttctcc attcaaccaa ctgtctacac tgaaccctgc tgcttatttg cagcaacaac 420
tattaccatt cagccagcta gctactgcct actctcagca acaacaactt cttccattta 480
accaattggc cgcactgaac cccgctgctt atttgcagca gcaaatacta ctaccattta 540
gccagctagc tgcagcaaac cgtgc 565

<210> 6758

<211> 581
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-C11

<400> 6758

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acagcagtta cctttggtcc atttgggtggc aaaaaacatc agggcacaac aactacaaca 120
acttgtgcta gcaaacccttg ctgcatactc tcagcaacat cagtttcttc cattcggcgg 180
ggtgggtgca ttgaactctg ctgcttattt gcaacaacaa ttaccattca gccagctagt 240
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ttatttacag cagcaacaac tactaccatt cagccagcta gctgatgtga gccctgctgc 360
cttcttgaca caacaacagt tgttgccgtt ctacctgcac gctatgccta acgctggcac 420
cctcttacia ctgcaacaat tgctgccatt caaccaactt gctttgacaa acccaacagt 480
gttctaccaa caacccatca ttgggtggtg cctctcttta gattgcttat gagttatagt 540
tcaataatga agtttttttg atgatgtttg tggcgtccca g 581

<210> 6759
<211> 617
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-C12

<400> 6759

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ttgcttctt atgctccttg gtctttctgc aagtgttget accgcaacca ttttccaca 120
atgctcacia gctcctatag ctcccttct tccccatac ctctcaccag cgggtgtgttc 180
aatgtgtgaa accccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat 240
cttaccatta tcacccttgt tctccaaca accgtcagcc ctattacagc agttaccttt 300
ggtccatttg gtggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa 360
ccttgctgca tactctcagc aacatcagtt tcttccattc aaccaactgg ctgcattgaa 420
ctctgctgct tatttgcaac aacaattacc attcagccag ctagttgctg cctaccccca 480

gcaatttctt ccattcaacc aactagcagc attgaactct gctgcttatt tacagcagca 540
 acaactacta ccattcagcc agctagctga tgtgagccct gctgccttct tgacacaaca 600
 acagttgttg ccgttct 617

<210> 6760
 <211> 608
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-K6-C2

<400> 6760

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 ct acc a ag at att at cc ct c ctt g cg gct tc tt g cg gct ttt tgc gag cg ca aca aat gc gt 120
 cc att at tcc aca at gct ca ctt gct ccta gtt cc att at tcc ac ag ttc ct cc cacc ag 180
 tt act t ca at ggc ctt cg aa cacc cag ct g tg ca ag ccta tag gct aca ca ag cg att g 240
 cg g cg ag cg ttt aca aca cca att gccc aatt gca aca aca at ccttg gc ac at cta a 300
 ca at aca aac cat cg ca ac g ca ac ag ca ac aac ag ttc ct acc ag cact g ag cc ac ct ag 360
 cc at ggt ga a cct gtc gcc tact tga ac ag cag ct gct tgc at cca ac cc act tgc t 420
 tag caa ac gt ag tt gca aac cag caa ca ac aaca act gca ac ag ttt ct g cc ag cg ct ta 480
 gt ca act ag c cat ggt ga ac cct gccc gct acct aca a gca aca act g ctt tcat cta 540
 gcc cg ct cg tgt ggc ca at gc ac ct ac at acct gca aca aga att gtt g ca ac ag att g 600
 tacc ag ct 608

<210> 6761
 <211> 567
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-C4

<400> 6761

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 cgttgctgtt ccgtgccgct gtcgttaagg gacgcaccga ggaggggagc ttcggcctgg 120
 ccttgccctgg ccggctgctt gtcggcgccg tgcgtggtgt cgttcttgct tctgtcaatc 180

tgctaggact gctcgtgcag agtgtcttct actacgcctg caaggccttc cacagccagc 240
 agattgaccg cactgcattg tatgagcacc ttggaggcta ccttggggag tacgtgccac 300
 tcaagagcaa tatccagatg gagaaccttt gagagttgga gcataggaca agggtaatct 360
 tctcacctct cgttgctaca tactagcagt tttctatgga tctttctcga aagatgacta 420
 tggtttactt ggagctatat atctgggtctt gttgattcta atatcctgta gtagtttagt 480
 ttagaatctg tacaagtga aatgcgcagt atggaaccaa tctacgaaat ggaacgtaga 540
 tgcataaaca aggttgtctt tctgtctc 567

<210> 6762

<211> 606

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-K6-C5

<400> 6762

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 catccttatg ctcttgctc tttctgcatg tgttgctaac gcgaccattt ttcctcaata 120
 ctcaagct cctatagctg cccttcttcc cccatacctt ccatcaatga ccgcttcagg 180
 gtgggaaaac ccagcccttc aaccctacag gctccaacaa gcaatcgcaa caagcaactt 240
 acctttatca cccctgttct ttcaacaatc gccagcccta tctttggtgc agtcattggt 300
 acaaaccatc agggcacaac agctgcaaca actcgtgcta ccagtgatca gccagtagc 360
 tctggcaaac ctttctccct actctcagca acaacaattt ctccattca accaactgtc 420
 tacactgaac cctgctgctt atttacaaca acaacaacta ctaccattca gccagctagc 480
 tactgcctac tctcagcagc aacaatttct tccatttaac caattggccg cactgaacct 540
 ctctgcttat ttccagcagc aaatactact accatttggc cagctagcta caacaagccc 600
 cacttc 606

<210> 6763

<211> 597

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-068-Q1-K6-C7

<400> 6763

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ctgggaaatt gttgttgta agacgctcgc cgcaattgct tttgttagcc tataggcttg 120
cacagctggg tttcgaagc ccattgaagt aactgggtggg aggaactgtg taataatgga 180
acttgagca agtgagcatt gtggaataat gaacgcattt gttgcgctcg caaaaagcgc 240
aagaagcga aggagggata atatcttggg agccattgtt gttagggtgt tgctaagtgt 300
cttcgcttgg tgtgtttctg aatgctcacc ccaaattccc aaatcttccc agttccctcc 360
tcccgcctga cccagatcga ggccctcgatc caccggccat ggcgctggag tgggtgggtgc 420
tgggctacgc ggcgggcgcg gagggcgtca tgctgctgct gctgacgctg ccggggctgg 480
acggcctgcg ccggggcatg gtctccgtgg tgcggagcgc gctcaagccc atgatgtccg 540
tgggtgccctt ctgcctcttc ctgctcatgg acatctactg gaagtacgag acgcggc 597

<210> 6764

<211> 607

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-K6-C8

<400> 6764

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tagtagagag gctagtaggt ggtcctcgac gaantgttgg cgggtgttcag cgggcaggtg 120
gtggaggtgc cggcggagct ggtggcggcg ggcagccgga cggcgtcgcc caagacgaga 180
gggggggag ctcgtggggc gcttcttggc cgcgtccgag ccggccgtgt ccgtgcagct 240
cggcgaccac ggccacctcg cctactccca caccaaccag gcgctcctcc gcccaggac 300
cccgaggga ggtgccgct cttctggggg atcaccgccg acggctgcgt cgccttctcc 360
gacgacatcg acatgtcaa aggtcatgc ggcaagtcgc tcgcgccgtt cccgaaggc 420
tgcttctact ccaacgccct cggagggctc aagtgtacg agaaccccaa gcacaaggtc 480
accgctgtcc ccgccgacga agaagagatc tgcggtgcca ctttcaaggt ggtggaagg 540

tctactgtcc tgacggcgct gcactgatcg atcatcatca ggcggaggcg atgcgacgat 600
acagaac 607

<210> 6765
<211> 600
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-068-Q1-K6-D1

<400> 6765

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gaccaagata ttttccctcc ttatgtcctt tgctctttct gcatgtgttg ctaacgcgac 120
aattttccct caatgctcac aagctcctat agcttccctt cttcccccat accttccatc 180
aatgatagct tcagtatgtg aaaaccacgc tcttcagccc tataggctcc aacaagcaat 240
cgcagcaagc aacatacctt tatcaccctt gttgtttcaa caatcgccag ccctatcttt 300
gggtgcagtca ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt 360
gatcaaccaa gtagctctgg caaacctttc tccctactct cagcaacaac aatttcttcc 420
attcaaccaa ctgtctacac tgaaccctgc tgcttatttg cagcaacaac tattaccatt 480
cagccagcta gctactgcct actctcagca acaacaactt cttccattta accaattggc 540
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<210> 6766
<211> 605
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-068-Q1-K6-D10

<400> 6766

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cttcagcctc cagggagcag atggtctaca gctatgacac gctcaaggga tacatgccgg 180
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aacggcagct ggttcttgct cgagaagaag taaatgagct acaaaagaac cctgagaagt 300
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 attttactgc tgatcgcgctg gttctagcag catcaggtgt tgatcacgaa cacttgctag 480
 gctatgcaga tttgttgttg aaagattggc acaaggggac cccaatggna aaagccaaag 540
 tctacatatg ttgggtgggag attccagaca cagagcanat tcagatatga cacatgttgc 600
 attag 605

<210> 6767

<211> 562

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-K6-D11

<400> 6767

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 tcggggccct ggtggccgtg gccgtctgcc aaggcgaggt cgagcggcag aggctcaggg 120
 acctgcagtg ctggcagggg gggggggggg gcccgctcga cgcgtgccgc caggtcctcg 180
 accggcagct aaccggcggc ggcgtcggcg gcccgttccg gtggggcacc gggctccgga 240
 tgcggtgctg ccagcagctc caggacgtga gccgcgagtg ccgctgcgcc gccatccgga 300
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 cctgcagccg ggcaggagag ggatacaaaa cgcagatgta tccaccgtgt cgtcccggca 480
 ccaccggggc aaggatcggc cgcgtgaggc ttactaaggc ccgggagtac gccgcggggt 540
 tgccgatgat gtgccggctg tc 562

<210> 6768

<211> 595

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-D2

<400> 6768

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gttgcttgag agaccctgcc atggcttccc accaggacaa ggctagctac caggccggcg 180
agaccaaggc ccgcaccgag gagaagaccg ggcaggcggg gggggcgacc aaggacacgg 240
cgcagcacgc caaggaccgg gcggcgagcg cggcggggca cgcggcgggc aagggccagg 300
acgccaagga ggccaccaag cagaaggcgt ccgacaccgg cggctacctg ggaaagaaga 360
ccgacgaggc caagcacaag gccggcgaga cgacggaggc gaccaagcag aaggccagcg 420
agacgacgga ggcgaccaag cagaaggccg gcgagacgac ggaggccgct aggcagaagg 480
cagccgacgc catggaggca gccaaagcaga aggccgccga ggccgggagc tacgccaagg 540
acaccggccg tctccggcaa ggacaagtcc ggcggcgctc tccagcaggc cactg 595

<210> 6769

<211> 567

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-D3

<400> 6769

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ctagtgccat tattccacag gtcctccctc cagttacttc aatgggcttc gaacaccag 180
ctgtgcaagc ctacaggcta caacaagcgc ttgcggcgag cgtcttataa caaccaattg 240
ccaattaca acaacaatcc ttggcacatc taaccataca aaccatggta acgcaacagc 300
tacaacaatt tctaccaaca ctgagccaac tagctgaggg gaaccctgtc acctacttgc 360
aacagcagaa gcttgcatc aaccactag ctctggcaaa catagttgca taccaacaac 420
aacaacaata gcaacagggt ctaccatagc ttacacaact agccatgggtg aaccctgccc 480
cctacctaca acagcaacaa ctgattgcat gtacccctct cgatgtggct aatgcaccta 540
catacctgca acaacagttg ttgcaac 567

<210> 6770

<211> 601

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-068-Q1-K6-D4
 <400> 6770

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 acggcgacgc cctactgctc gcctcagtgc cagtcgttgc ggcagcagtg ttgccagcag 180
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 cagcaactga cggcgatgtg cggcctgcag cagccgactc catgccccta cgctgctgcc 360
 ggcgggtgtcc cccactgaag aaactatgtg ctgtagtata gccgctggct agctagctag 420
 ttgagtcatt tagcggcgat gattgagtaa taatgtgtca cgcacacca tgggtggcag 480
 tgtcagtgtg agcaatgacc tgaatgaaca attgaaatga aaagaaaaaa agtactccat 540
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 g 601

<210> 6771
 <211> 603
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-068-Q1-K6-D6
 <400> 6771

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 tctgttcagt cccattgact tcagtactgc ttctctttga gctgacaaag gattacagga 180
 ttttgcttcc tctcatgtga acaagggaga atattgtgaa ctgaagggtca tgtatcagcg 240
 aaaagcaggc tttcctcttg tagcaattgt gcacctgaaa aactacagtg cccttatgac 300
 accacaatag tcgctcgaat gcaactgtcc ggcctagcat ccaatcgacc tcaaccactc 360
 tgcacccac gtgtgtgtgg agctgatgaa catgtcgatg tgcaaattcc tccagctcga 420
 gtacttgag attacatagt cttctccatt gtttttctag actttgaggt tctaagcatg 480

agcaagctgg gttatgatgg tggtgtggca ctgctggttg ctgatatatc actttcaatc 540
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 tac 603

<210> 6772

<211> 511

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-K6-D7

<400> 6772

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 cnnccccccc cccccnnnc ccccncccc ccccccccc cccccnccc ccccccccc 180
 ccccccccc ccccccnnc ccccccccc ccccccccc nnnnncccc ncccccccc 240
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<210> 6773

<211> 637

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-K6-D8

<400> 6773

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 gggggggggc acctccggtt cacctgccac ctccggtgca tctcccaccg ccggtccacc 120
 tgccgccgcc ggtccacctg ccaccgccgg tccatgtgcc gccgccggtt catctgccgc 180
 cgccaccatg ccactaccct actcaaccgg ggggggctca gcctcatccc cagccacacc 240

catgcccgtg ccaacagccg catccaagcc cgtgccagct gcaggggaacc tgcggcggtg 300
gcagcacccc gatcctgggc cagtgcgtcg agttcctgag gcatcagtgc agcccgcagg 360
cgacgcccta ctgctcgct cagtgccagt cgttgccgca gcagtgttgc cagcagctca 420
ggcaggtgga gccgcagcac cgggtaccagg cgatcttcgg cttggtcctc cagtccatcc 480
tgcagcagca gccgcaaagc ggccaggctcg cggggctgtt ggcggcgcag atagcgcagc 540
aactgacggc gatgtgcggc ctgcagcagc cgactccatg cccctacgct gctgccggcg 600
gtgtccccc ctgaagaaac tatgtgctgt agtatag 637

<210> 6774

<211> 530

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-D9

<400> 6774

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tgctgcatac tctcagcaac atcagtttct tccattcaac caactggctg cattgaactc 120
tgctgcttat ttgcaacaac aattaccatt cagccagcta gttgctgcct acccccagca 180
attgcttcca ttcaaccaac tagcagcatt gaactctgct gcttatttac agcagcaaca 240
actactacca ttcagccagc tagctgatgt gagccctgct gccttcttga cacaacaaca 300
gttggttgcg ttctacctgc acgctatgcc taacgctggc accctcttac aactgcaaca 360
attgctgcca ttcaaccaac ttgctttgac aaacccaaca gtgttctacc aacaacccat 420
cattggtggt gccctctttt agattgctta tgagttatag ttcaataatg aagttttttg 480
gatgatgttt gtggcgctccc agaaataaga aagtacattt ctagattctt 530

<210> 6775

<211> 587

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-K6-E1

<400> 6775

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 ttcgacaatt taaaggagtt tcagatgggt tgaaacgggc ggttggcaca tcaccttcta 180
 gtgcaactgc ccaatttgca gataatagga tgtctctatc ttggaaccag gaagagaaag 240
 ataaccacaa cttgcatcaa agaaacttgg aaagggtca tagcctttca gatggtgata 300
 gtaactatga agatcacatc tcttctgtga atagtggatg ccattcagac aatgaggtca 360
 ataatagagg acatacttca aatgatgttg agcacatcga aacatgctct agtttggata 420
 aacaagccag cgaccaaata ggaaaacctg caaaggaata ttctgattct tcaaacatgt 480
 catctctaaa tgcattcgag gatccaacag gaattcctcc tgagtggatg ccaacaaatg 540
 ttagtgtgcc tttattgaac ctggttgaca aagtattcca gctaaag 587

<210> 6776

<211> 546

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-K6-E10

<400> 6776

ccaaaaaaaa tatgtacaan agaatttaca ctaccagaaa cttctttcca gttggcaccc 60
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 aaaaacggat gtcattgggg ggggggggaa atgaagcact acgacttgtg cacaatgaat 180
 ttgaatgaag tggtgtcgag agtagaagag atgtcacaag aagaagcatc tgtttgcggt 240
 cttatggata tggatgagcc tagtcctccc agttgtgatg attcagttga ggttgaggac 300
 gacagttgct atgaaggttt aactgatgca gagtgggcag ctgagaatta tgcagattgg 360
 gaggaacttt ataaccgtag tatgtgatct aggaaaacta taaagtgtca tgagaagtac 420
 tattgctgta gtacctgatc caagttgtga ggacttctat tatgttgtag tatgtgcttg 480
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 tccgct 546

<210> 6777

<211> 560

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-K6-E11

 <400> 6777

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aaccccggtc gaccagegt ccgtgttcct ccaacaatca tcancggggg tacgtcaggg 60
ggctttaaaa aataaataag gcacaaaaca tcagggcaca acaactacaa caacttgtgc 120
tagcaaacct tgctgectac tctcagcaac agcagtttct tccattcaac caactagctg 180
cattgaactc tgcttcttat gtgggggggg gggggnact accattcagc cagctacctg 240
ctgcctaccc ccagcaattt ctccattca accaactggc agcattgaac tctcctgctt 300
atttacagca gcaacaacta ctaccattca gccagctagc tgggtgtgagc cctgctacct 360
tcttgatata accacagttg ttgccgttct accagcacgc tgcgcctaac gctggcacc 420
tcttacaact gcaacaattg ctgccattca accaacttgc tttgacaaac ccagcagcgt 480
tctaccaaca acccatcatt ggtggtgccc tcttttagat ttcttatgag ttatagttca 540
ataataaagt tttttgtctg 560
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<210> 6778
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-K6-E2

 <400> 6778

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gagaggagag aggaggcnct nccgnagctt gcccccttcg acccgaccaa gaagaagaaa 180
aagaagaagg ttgtcatcca agaaccttct gatgaagtgg acaagcttgc agagaagaca 240
gaaacactgn gcagtcgcag aacccccgt gaacttaacn nttcactgga atgaagaaga 300
aaaagaagaa gccggtggat cttgattcaa ctcttgatga gcttgagat ggggaggaca 360
ctcaagatga tcaagctgta gaggaacaag gggaaagcat tgtg 404
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<210> 6779
 <211> 583
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-K6-E3

<400> 6779

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 cttgcaacag caggtgcttg catccaaccc acttgctctg gcaaacgtag ctgcatacca 120
 acaacaacaa caattgcaac agtttctgcc agcgctcagt caactagcca tgggtgaaccc 180
 tgccgcctac ctacaacagc aacaactgct ttcacttagc cctctcgttg tgggtaatgc 240
 acctacatac ctgcaacaac aattgctgca acagattgta ccagctctga ctcagctagc 300
 tgtggcaaac cctgctgcct acttgcaaca gctgcttcca ttcaaccaac tgactgtgtc 360
 gaactctgct gcgtacctac aacagcgaca acagttactt aatccactag cagtgcctaa 420
 cccattggtc actgccttcc tacagcagca acaattgcta ccatacagcc agttctcttt 480
 gatgaaccct gccttgtcgt ggcagcaacc catcgttgga ggtgccatct tttagattac 540
 atatgagatg taatcgataa tggggccctc ataccggcat gtg 583

<210> 6780
 <211> 586
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-K6-E5

<400> 6780

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 ttccctcctt atgctccttg ctctttctac atgtgttgct aacgcgacaa ttttccctca 120
 atgctcacia gctcctatag ctcccttct tccccatac cttccatcaa ttatagcttc 180
 agtatgtgaa aaccagctc ttcaaccata taggcttcaa caagcaatcg cagcaagcaa 240
 cataccttta tcgccttgt tgtttcaaca atcaccagcc ctatctttgg tgcagtcatt 300
 ggtacaaacc atcagggcac aacagctgca gcaactcgtg ctacctgtga tcaaccaagt 360
 agctctggca aacctttctc cctactctca gcaacaacaa tttcttccat tcaaccaact 420

gtctacactg aaccctgctg cttatttgca gcaacaacta ttaccattta gccagctagc 480
 tactgcctac tctcagcaac aacaacttct tccatttaac caattggccg cactgaaccc 540
 cgctgcttat ttgcagcagc aaatactact gccatttagc gagcta 586

<210> 6781

<211> 603

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-E6

<400> 6781

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 tcggcttcat caagggctac aagcgcacct ttaatctcgc ttgcattgac cacagaggca 120
 caccgggaca tccggcgagg acctgcacgc ttgaaaccga cgacgaggcc atatgctggg 180
 gaattgcata ttgtgtcaag ggtgggtccag aaaaagagct aaaagcaatg cagtacttgg 240
 agagaagaga gtgtgagtac caccagaaga tatccattga tttctacaag gaaggagatc 300
 ccttgaaacc agctgtgaca ggcgtcttag tgttcgtttc cactccagat ccaattggca 360
 acaagtacta tcttggccct gctcctttgc aggatatggc aaggcaaatt gctacagcca 420
 atggccctac tggctataat agggattacc tgttctcaat ggagaaggca ttagccagca 480
 ttagccacga agatgattcg atcatagagc ttgcaaacga ggtgaggaag gtgctcaaca 540
 gaacaaagga gaccaagatc actggtgcca atgcttcctt gaaaacacat gcccctcttg 600
 tgc 603

<210> 6782

<211> 581

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-E7

<400> 6782

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 gcctccttat gctccttggg ctttctgcaa gtgctgtac ggcgaccatt ttcccgaat 120
 gctcgcaagc tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtctgcgg 180

tatgtgaaaa cccaattctt caacctaca ggatccaaca ggcaatcgca gctggcatct 240
 tacctttatc acccttggtc ctccaacaat catcagccct attacaacag ttacctttgg 300
 tgcatttatt ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc 360
 ttgctgccta ctctcagcaa cagcagtttc ttccattcaa ccaactaggt tcattgaact 420
 ctgcttctta ttgcaacaa caacaactac cattcagcca gctacctgct gcctaccccc 480
 agcaatttct tccattcaac caactagcag cattgaactc tcctgcttat ttacagcagc 540
 aacaactact accattcagc cagctagctg gtgtgagccc t 581

<210> 6783

<211> 586

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-K6-E8

<400> 6783

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 tgtatttcca aggaatttgt tgggtgggat tgttccagga agcaatcctg gtgactacat 120
 gatgcttggc cttggagaca tggccattcc agggatgctt ctagctctgg tactctgtgg 180
 gggatgatgg aagttcaagg atgtgaattt tccaccagat gtgtctcccc caaaacggcg 240
 gaattatgtg tggatgctg taacagggtta tggattggc ttggtagctg cactagctgc 300
 tgggatcttg tctcagtctc ctcaaccagc cttactgtac ctggtgccat cgacactggg 360
 acctgtcatg tacttgtcat ggttacggaa tgagctatgg gagctatggg aagggctctgg 420
 gacgattctg aacgagaaaag ctcatctgtt ggaggtctga gatccaagtg gacaataaga 480
 aggatctgaa cccaccgtga ttgaatctaa ttaaacaata cttgacctcc tcataccgaa 540
 ggagagtatt tataagctag aatgttcagt catgtaagcc atcacc 586

<210> 6784

<211> 616

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-K6-E9

<400> 6784

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gcacccatct taatcagcaa tcaattccgc agtcattctca aactcatgaa gcaggtaatc 120
tgagatctcc agttgatgtc aatggttgag atggctctga gacctcacct gggcagcaga 180
atggtctggt cactctctct gggaggggga cttttttgga tcaatgctcc cggcgaaaag 240
ttcgaggaaa tacttcaagc cagcaaccac caatggcttc caccgagcag ggagagggta 300
gaaatcttgc aacacccana agtgtcagga gccactgagg aggccctacg ctttgctggc 360
atggtcagac aaattatgcc atttatctcc caagttgaaa cacagaatca aagtgcccc 420
ccagacagca gcagcacacc tgcacaggct gcattctggga gtgcagacag agctagggat 480
gtcccaaattg attctacgag ttcccgctcaa cataaccgag accaaattga tgagccta 540
tctaaaaggc aaagaactag tgactgattg gaattctact gtgagctgag aatcttgcca 600
gttcttgatt tcccc 616

<210> 6785

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-K6-F1

<400> 6785

natgnaaacc aactagcaac atagnaaagc acaatagtgt accaacaatg gcagccaaaa 60
tattttgctt ctttatgtc cttgggtctt ctgcaagtgc tgctaccgca accattttcc 120
cacaatgtc acaagctcct atagcttctt ttcttcccc atacctctca ccagcgtgt 180
cttcagtatg tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgagcag 240
gcattctacc tttatcacc ttgttctctc aacaaccgtc agccctatta cagcagttac 300
ctttggtgca tttgttgga caaaacatca aggcacaaca actacaâaaa cttgtgctag 360
gaaaccttgc ctgcctactc tcagcaacag c 391

<210> 6786

<211> 609

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3061-068-Q1-K6-F10
 <400> 6786

aaaatccttc tatcagtacc atcagaggat cgttcattggt tatagtatag gcaccaaadc 60
 aaatctgcaa catcaattat ctaactccaa aaccatgaag ctggtgcttg tggttcttgc 120
 tttcattgct ttagtatcaa gtgtttcttg tacacagaca ggcggtgca gctgtggggg 180
 ggagcaaagc catgagcagc aacatcatcc acaacaacat catccacaaa aacaacaaca 240
 tcaaccacca ccacaacatc accagcagca gcaacaccaa caacaacaag ttcacatgca 300
 accacaaaaa catcagcaac aacaagaagt tcatgttcaa caacaacaac aacaaccgca 360
 gcaccaccac caacaacaac aacaacagca ccaacaacaa catcaatgtg aaggccaaca 420
 acaacatcac caacaatcac aaggccatgt gcaacaacac gaacagagcc atgagcaaca 480
 ccaaggacag agccatgagc aacaacatca acaacaattc cagggtcatg acaagcagca 540
 acaaccacaa cagcctcagc aatatcagca gggccaggaa aaatcacaac agcaacaatg 600
 tcattgccca 609

<210> 6787
 <211> 400
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-K6-F12

<400> 6787

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 ttgctttgac agaccagcg gctcctacc agcagtttgc ggctaacccc gcaaccctct 120
 tacaactaca acaattgttg ccctttgtcc aacttgcttt gacagacca gcggcgcgcg 180
 gggggggcaa cacatcattg gtggtgccct cttttagatt gcttattagt tgtaattcaa 240
 taataaagtt ttttgatga tgtatgtggc caaccagaaa taagaagtta catttcaga 300
 ttctaattgtg nnaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa aaaaaataaa aaaaatactt aatttttttt 400

<210> 6788
<211> 616
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-068-Q1-K6-F3

<400> 6788

ngatgnanac caacaagcaa catagnaaag tggnaatcca gtagcaacaa tagagcaaca 60
atggcgacca agatactttc cctccttatg ctccttgctc tttctgcatg tgttgctaac 120
gcgacaattt tccctcaatg ctcaacaagct cctatagctt cccttcttcc cccatacctt 180
ccatcaatga tagcttcagt atgtgaaaac ccagctcttc aaccctatag gctccaacaa 240
gcaatcgag caagcaacat acctttatca cccttgtttc aacaatcgcc agccctatct 300
ttggtgcagt cattggtaca aaccatcaag gcacagcagc tgcagcaact cgtgctacct 360
gtgatcaacc aagtagctct ggcaaacctt tctccctact atcagcaaca acaatttctt 420
ccattcaacc aactatctac actgaaccct gctgcttatt tgcagcaaca actattacca 480
ttcagccagc tagctactgc ctactctcat caacaacaac ttcttccatt taaccaattg 540
gccgcactga acctcgctgc ttatttgcag cagcaaatat tactaccatt tagccagcta 600
gctgcagcaa gccgtg 616

<210> 6789
<211> 606
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-068-Q1-K6-F4

<400> 6789

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gctgccagcg ccagcgccgg gacctcctgc gtgccggggg gggccatccc gcacaaccgg 180
ctcccagact gccgctggta cgtgaccagc cggacctgcg gcatcggggc gcgcctcccg 240
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gagggccgcc tagaggacct gccgggctgc ccgcgggagg tgcagagggg attcgccgcc 420
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 tggattctcg gcggcggaac gatgccctcc aagtaactgc gaagagcata gtgcatgagg 540
 aatgagcttg tagctagctc atatgtctga ataataagca cagcaagaag atgaatgcat 600
 ttctcg 606

<210> 6790
 <211> 614
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-K6-F6

<400> 6790

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 ctcaatgctc acaagctcct atagcttccc ttcttcccc ataccttcca tcaattatag 180
 cttcaatatg tgaaaaccca gctcttcaac catataggct tcaacaagca atcgcagcaa 240
 gcaacatacc tttatcgccc ttgttgtttc aacaatcgcc agccctatct ttggtgcagt 300
 cattggtaca aaccatcagg gcacaacagc tgcagcaact cgtgctacct ctgatcaacc 360
 aagtagctct ggcaaacctt tctccctact ctgagcaaca acaatttctt ccattcaacc 420
 aactgtctac actgaacctt gctgcttatt tgcagcaaca actattacca tttagccagc 480
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 accccgctgc ttatttgcag cagcaaatac tactaccatt tagccagcta gctgcagcaa 600
 accgtgcttc cttc 614

<210> 6791
 <211> 610
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-K6-F7

<400> 6791

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 gcttcgtcgg aagttcggcc actggaacag tactgatgac gttgagtttt tcgagtatgt 180
 cgaagcagta aagttgactg gtgatctgag tgttcctgct ggccagataa cgttccgtgc 240
 taagattggg aagggcaagc gacttgagaa tcgaggagca tatccagagg aatttgggtgt 300
 gattgccagt taaaaaggtc agggtagaat agctcagcct ggattcaaaa atcctcgatg 360
 ggtggatggg gagctgttgg tactcaatgg caagagtaca attccacacc ttggaggcgc 420
 agagctcggg ttctgtata gtgtacctga gcagagtttt ctggttctct tcgatcggct 480
 taatcttccc gagtgatgag actcctaaag ggagcagact cctcacatgt agattgcatg 540
 aacgcgcaga ggccggccac agctccaagt gaccgaaaca ggtctgggng ggccgtttcc 600
 ccatcgtctt 610

<210> 6792

<211> 587

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-K6-F8

<400> 6792

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 accagttact tcaatgggct tcgaacatcc agccgtgcaa gcctacaggc tacaactagc 180
 gcttgcgggc agcgccttac aacaaccaat tgcccaattg caacaacaat ccttggcaca 240
 tctaacccta caaaccattg caacgcaaca acaacaacaa caacagtttc tgccatcact 300
 gagccaccta gccgtggtga accctgtcac ctacttgcaa cagcagctgc ttgcatccaa 360
 cccacttgct ctggcgaacg tagctgcata ccagcaacaa caacagctgc aacagtttat 420
 gccagtgtc agtcaactag ccatggtgaa ccctgccgtc tacctacaac tactttcatc 480
 tagcccgtc gcggtgggca atgcacctac gtacctacaa caacagttgc tgcaacaaat 540
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<210> 6793
 <211> 608
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-K6-F9

<400> 6793

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 tectatagct tcccttcttc ccccgtagct ctcaccagcg gtgtcttcgg tatgtgaaaa 180
 cccaattctt caaccctaca ggatccaaca ggcaatcgca gctggcatct tacctttatc 240
 acccttggtc ctccaacaat catcagccct attacaacag ttacctttgg tgcatttatt 300
 ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta 360
 ctctcagcaa cagcagtttc ttccattcaa ccaactaggt tcattgaact ctgcttctta 420
 tttgcaacaa caacaactac cattcagcca gctacctgct gcctaccccc agcaatttct 480
 tccattcaac caactagcag cattgaactc tctgcttat ttacagcagc aacaactact 540
 accattcagc cagctagctg gtgtgagccc tgctaccttc ttgacacaac cacagttggt 600
 gccgttct 608

<210> 6794
 <211> 199
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-K6-G1

<400> 6794

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 tccacaatgc tcaattgctc ncaagttnnn ccattnatta cacanngttc ctcccaacca 180
 agttacttca atgggcttc 199

<210> 6795

<211> 591
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 <213> Zea mays
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 <400> 6795

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 aacaactaca acaacttggt ctagcaaacc ttgctgcata ctctcagcaa catcagggtc 180
 ttccattcaa ccaactgggt gcattgaact ctgctgctta tttgcaacaa caattaccat 240
 tcagccagct agttgctgcc taccctccagc aatttcttcc attcaaccaa ctagcagcat 300
 tgaactctgc tgcttattta cagcagcaac aactactacc attcagccag ctagctgatg 360
 tgagccctgc tgccttcttg acacaacaac agttgttgcc gttctacctg cacgctatgc 420
 ctaacgctgg caccctctta caactgcaac aattgctgcc attcaaccaa cttgctttga 480
 caaacccaac agtggtctac caacaaccca tcattgggtg tgccctcttt tagattgctt 540
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<210> 6796
 <211> 629
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-K6-G11
 <400> 6796

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 cgcgtccatg tgcgtgcacg tcgaggcgtc gcaccggccg ttcattggcg atgtcgtgca 180
 ggcgtgaag ctgatccaca gggggggggg gggcgacnag acctgcagcg gctccttct 240
 gggcggcgca acagaggagt ccccgaggaa cgacgtcagc aggagctcgt ggaacgacga 300
 cccgcccggc actccgggac cggcgctccc cctgggatac ggctcggacc ctgccggcgc 360
 cgacgagcgc aggccacggt cggcgctcag cgcggtgctg gacaagatcg agtccctggc 420
 gatgtacgac tgggtccggc cgctgcgcac caaggggagg ggcagcttct acaggctgag 480

ggggagcatg agcgagcacg gtcgcccctc ggacgacggt agcgtcgaag gttacttgat 540
 gtagccggcg gcccgacgac cgtgcgcagc atattgccgc ggcaggcata cctcgcgttt 600
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<210> 6797

<211> 592

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-G12

<400> 6797

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 aaaaaaaaaa aacccccccc ttccccact tcccaactta cttatttaaa ttccccttac 120
 caccttttta acccccattg ccaacccaat tttttttctt ttttttgccc ctcccttctt 180
 tttcaccagg gggggctccc cccctttttt ttccccattc ctcccaccat tccctttttc 240
 aaaaaatacc cccaaatttt aattcccctt ttttccattc ctccagccta caaaagccct 300
 tcccaccaac ctttttccgt tctttacctt tacccttcca acaccctttt ccttttttcc 360
 accacccttc cttattaatt ctttttctcc aaaaattccc agcccaacac ctccaacacc 420
 gtttttttcc accatttaat caattatttc caccaaccct tccttttttac cttcaacaac 480
 accatttttt tcctttcatt cacctacctg gggttaacccc ttttttttat ttccagcccc 540
 aacatttcct acctttcacc caatttttgc gaaccccttt tccctttttt tt 592

<210> 6798

<211> 606

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-G4

<400> 6798

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 cgtgaggtcc tcgccggcga cgagtgccgc cgcctgtttc catgtttttt ccgccgatta 120
 gtgtccacca gatctagtga aggctggtaa cttgacgcaa ggtgttcaag aaatttaagc 180
 cacacactct tcatcatagg cccaggcaat atttgtgtta atctcaggga cctccagtag 240

attgctgaga gttatccttg atacagggga atatagacac agaatttttt gaacattgat 300
ctgtagccag tgctgcaatg gctacaaagc ttgtggttct cggtatcccc tgggatgttg 360
aactgaagg gttacgagag tacatggcca agtttggacc cctagatgat tgtgtcgtca 420
tgaaggagcg gtcttctggg cgatctcgtg ggtttggcta tgtaacattc gcatcagccg 480
acgatgcaaa gaatgttctt gattgcgagc atgttcttgg gagccgtaca ttagaagtga 540
agatagctac tccaaaggaa gaaatgaaat cacaaggaac aaagaaagct acaaggatat 600
ttgttg 606

<210> 6799

<211> 565

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-G5

<400> 6799

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tttttttttt tttttttttt tttttttttt ttttttttgg ggggaaaacc aggggaacgg 120
ggattaatta aaaattgccg ggggggggaa cgggttaatt tctcgctaataaaaaatctg 180
gattcgggac gagctccaac agcaacatac ccccaaaggg cttaactttt tttttggggg 240
gttgggggag gcccaacttt ttggcttttt ttgattgca accagggact gaagaagagg 300
cttttaccgg aattaaaaaa tgggcccccc aatctgatcc acatggggga accaactctt 360
ttactcagtc tcaattaaaa gaggggaagg ggcttttggt tctccctttg gggccggaat 420
cctttttctg ggggaggggt tcggaggggt cggggaccca aaaaaaaggg cttttctccc 480
ccggggggccc ctttttttaa tcccccccg cgccccacc aaagggggcg ccggggggccc 540
gccccccccc ccgaaaagg gggaa 565

<210> 6800

<211> 609

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-K6-G8

<400> 6800

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tgtaggcgag gaccacaagg cggctattgc agtatctggt ggcattaagg ccctggtcga 120
tctaataattt cgttggcctg ctggaactga tggagttctt gaacgtgctg ctggcgcgct 180
tgcaaacctg gctgctgatg acaagtgtag cttggaagtt gcaaaggctg gtggtgtcca 240
tgctttgggt acacttgcta gatcatgtaa acttgatggt gtcctagaac aggctgcaag 300
aggctctggct aacttagctg cacatgggga caacaatgac aacaatgctg ctgtaggtca 360
ggaagcaggg gctctggagg cactggtgca actaacaagt tctcaaacg aggggtgtaag 420
acaagaagct gctggtgctt tgtggaacct gtcatttgat gacagaaacc gtgaagccat 480
tgctgcagtg ggtggcgctt aagctttggt tgccctagtg caacaatgtt tgaatgcttc 540
agaaggtctt cagagagag ctgctggtgc attgtgggga ttatctgttt cagaagctaa 600
tagcattgc 609

<210> 6801

<211> 602

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-K6-G9

<400> 6801

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aggggcgaag cgatccgaac tccgagaacc ccagggccag ggctcagtcc acagcgagag 120
cagagaacgc agcggcctgc cggcctccgc cctcactcc cgcagccatg gccgccgccg 180
ccgccgtggt tgccgagccc aagaccaagt acgatcgcca gctcaggata tggggtgatc 240
aaggccaaac tgactggag aaggccagca tatgcttgct taactgtggt cctaccggaa 300
cagaagcatt gaagaatctc gtgcttggag gaataggaag tgtgactgtt gttgatggct 360
ccaaagtga agcatctgat ctggggaaca attttatgtt ggatgaagga tgtttggggc 420
aaccaagagc taaatctata tgttcattcc tacaagagct taatgacgct gttaaagcca 480
agtttggtga ggagtttcca acgcatttga tagacactaa tccttcattc ttttcccagt 540
ttactgttgt cattgctact cagcttccag agagttcttt actgaagcta gatgatattt 600

gc

602

<210> 6802

<211> 543

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-H11

<400> 6802

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aaaacggggg ggggggaacc ctacaggatc caacaggcaa tcgcagctgg catcttacct 180

ttatcacctt tgttctcca acaatcatca gccctattac agcagttacc tttggtgcat 240

ttattggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct 300

gctactctc agcaacagca gtttcttcca ttcaaccaac tagctgcatt gaactctgct 360

tcttatttgc aacaacaaca actaccattc agccagctac ctgttgctta cccccaacaa 420

ttttctccat tcaaccaact ggcagcattg aactctctg cttatttaca gcagcaacaa 480

ctactaccat tcagccagct agctgggtgtg agccctgcta ctttcttgac acaaccacag 540

ttg 543

<210> 6803

<211> 640

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-K6-H12

<400> 6803

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aagggggggg ggggggggga aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa ggggggggaa aaaaaaaaaaag ttcccttttt aactaccctt tctttaaaaa 300

gaaaaatttt ttttatgggg cccccaaaat aaattaaagg gcccggttt aaaaaacttt 360
 ggggttgaaa aaaccggggg ttacaaaaat aaaatccttt taaaaaaatt ccttttttcc 420
 aaagtgggga aaaaaaaaaa aaggccccac acaatcccc ttccaaaaat tttccccccc 480
 ttaaattgaa aagggaaccc ccttttgggg gggtttttaa ccccgggggg ttgggggttt 540
 cccccaaggg ggccctttaa ttttgcaaac ccttaacccc cttttttttt cttttttccc 600
 cttccttttt tcccccttc ccccgtttac cccgaaaaat 640

<210> 6804

<211> 603

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-K6-H2

<400> 6804

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 atactcacia gctcctatag ctgcccttct tccccatac cttccatcaa tgaccgcttc 180
 agtttgtgaa aaccagccc ttcaacccta caggctccaa caagcaatcg caacaagcaa 240
 cttaccttta tcaccctgt tctttcaaca atcgccagcc ctatctttgg tgcagtcatt 300
 ggtacaaacc atcagggcac aacagctgca acaactcgtg ctaccagtga tcagccaagt 360
 agctctggca aacctttctc cctactctca gcaacaacaa tttcttccat tcaaccaact 420
 gtctacactg aaccctgctg cttatttaca acaacaacaa ctactaccat tcagccagct 480
 agctactgcc tactctcagc agcaacaatt tcttccattt aaccaattgg ccgactgaa 540
 cccctctgct tatttccagc agcaaatact actaccattt ggccagctag ctacaacaag 600
 ccc 603

<210> 6805

<211> 601

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-K6-H3

<400> 6805

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 tttctgcaag tgctgctacg gcgaccattt tcccgcaatg ctcgcaagct cctatagctt 120
 cccttcttcc cccgtacctc tcaccagcgg tgtcttcggt atgtagaaaa cccaattctt 180
 caaccctaca ggatccaaca ggcaatcgca gctggcatct tacctttatc acccttggtc 240
 ctccaacaat catcagccct attacaacag ttacctttgg tgcatttatt ggcacaaaac 300
 atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta ctctcagcaa 360
 cagcagtttc ttccattcaa ccaactaggt tcattgaact ctgcttctta ttgcaacaa 420
 caacaactac cattcagcca gctacctgct gcctaccccc agcaatttct tccattcaac 480
 caactagcag cattgaactc tcctgcttat ttacagcagc aacaactact accattcagc 540
 cagctagctg gtgtgagccc tgctaccttc ttgacacaac cacagttggt gccgttctac 600
 c 601

<210> 6806
 <211> 608
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-068-Q1-K6-H7
 <400> 6806

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 gagtcttcag acaccatcga caatgtcaag gccaatgccc aggacaagga gggcatccca 180
 ccggaccagc agcgcttgat ctctgctggc aagcagctgg aggatggccg cacccttgcg 240
 gattacaaca tccagaagga gagcaccctc cacctggtgc tccgtctcag ggggtggtatg 300
 cagatctttg tgaagacact cactggcaag acaatcacc ttgagggtgga gtcttcggat 360
 accattgaca atgtcaaggc caagatccag gacaaggagg gcatcccacc cgaccagcag 420
 cgctcatct tcgcccggca gcagctggag gatggccgca ccctggcgga ttacaacatc 480
 cagaaggaga gcaactctca cctgggtgct cgctcaggg gtggcatgca gatttttgtg 540
 aagacattga ctggcaagac catcaccttg gaggtggaga gctctgacac cattgacaat 600
 gtgaaagc 608

<210> 6807
 <211> 600
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-K6-H8

<400> 6807

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 cagcgatacc aggaagaagg ggaggtacag tcccgcgtac agcccccca ggagaggaca 120
 tggcggcagg ggaaggagcc cacctcccag gagaggatat ggcggtggcc gtggtgacca 180
 ggggggctgtc agcctcctgg tccgcaacat tccattgaga tgcaggcctg aggaactacg 240
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 tggggagcca agaggatttg ggttcgtgga gttcgttgat gcttatgacg cttctgaggc 360
 acagtaccac atgaatcgcc agatgtttgc tgggcgtgaa ataactgttg tacttgctgc 420
 ggatacacgg aaaaggcctg aggacatgag tagacgaact ggaccaagag gttattctgg 480
 tcatgaaggc cgtcgtccga atcgtcatgg tgcaggacgg tcccgttctc gttcatactc 540
 gcgttcccgc tcaccacgcc ctcgtggtcg tggtagatca cagtcatact cccctgcccc 600

<210> 6808
 <211> 600
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-068-Q1-K6-H9

<400> 6808

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 tagtatcaag tgtttcttgt acacagacag gcggtgagc ctgtggtcaa caacaaaggc 180
 ggggggggca acatcatcca caacaacatc atccacaaaa acaacaacat caaccaccac 240
 cacaacatca ccagcagcag caacaccaac aacaacaagt tcacatgcaa ccacaaaaac 300
 atcagcaaca acaagaagtt catgttcaac aacaacaaca acaaccgag caccaccacc 360

aācaacaaca acaacagcac caacaacaac atcaatgtga aggccaacaa caacatcacc 420
aacaatcaca aggccatgtg caacaacacg aacagagcca tgagcaacac caaggacaga 480
gccatgagca acaacatcaa caacaattcc agggtcatga caagcagcaa caaccacaac 540
agcctcagca atatcagcag ggccaggaaa aatcacaaca gcaacaatgt cattgccagg 600

<210> 6809

<211> 494

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-N6-A10

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tactatcatc caaaaaactt tattattgaa ttacaactaa taagcaatct aaaagaggca 120
ccaccaatga tgtgttggtg ntaggagggc gggccgtctg gggaancaan ttnnaccaaa 180
ggcaacaatt gttgtanttg taagaggggtt gcgggggttag ccccaaactg ctggtagaaa 240
ggcagcaact gttgctgtgt caagaaggaa gcacggtttg ctgcagctag ctggctaaat 300
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ggaagaagtt gttgttgctg agagtaggca gtagctagct ggctgaatgg taatagttgt 420
tgctgcaaata aagcagcagg gttcaatgta gacagttggt tgaatggaag aaattgttgt 480
tgctggagag tagg 494

<210> 6810

<211> 541

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-A2

<400> 6810

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acacgatggc aagcctatcc ccaaaagtcc atgtgtggag gagtaaacct taaccttgca 180
gcgttacacc aagggtccgaa acaagatgac acgcaaagct ggcagaacct gagtagcagc 240

agcagcagca gcagcggatc taggcgtcat cgagggcaag gacaccaggt agagtcttgc 300
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 gccagcctt ctcgacagca gcgacagagt cgcgccgcc gatgatggta gtgacaccct 420
 tcgtgggttg aagctcagct agcttcttgg caatcgctc agttccagct gcaaacttct 480
 cgaactcaaa cactccctat ggggccgttc caaataacag tcttggtggg tgtccaatgc 540
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<210> 6811

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-A4

<400> 6811

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 cactgtatatt caaattcaaa tgtaagaaat aatttttaca caatctttgt acagatgttc 120
 aagcacagct ggatccgacg ctcgagtatg cggagggcgg ggggtcaatc aatacctctt 180
 catccttctc tgatgaaggt cgtagaagag attgctgaca aaaaaggatc cttgtgcctt 240
 atgagttaaa tatgatacac aggacctcaa ctgtcagctc tttttcagtc gggtagaatt 300
 ggactgcttg gtatcccaag aagtgccgtt cgcgaggaa cccagagacg gcgaagatgt 360
 tgaaaaatgt ttttggtttt tagagattga acaaaagcaa ctgaaggaac ttgtcaacat 420
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<210> 6812

<211> 575

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-A5

<400> 6812

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 tcagacaaaa aatttattat tgaactataa ctcataagaa actaaaagag gcaccaccaa 120
 tgatggggtt ttggtagaac gctgctgggt ttgtcaaagc aagttgggtt aatggcagca 180

attgttgtag ttgtaagagg gtgccagcgt taggcgcagc gtgctggttag aacggcaaca 240
 actgtgggttg tatcaagaag gtagcagggc tcacaccagc tagctggctg aatggtagta 300
 gttgttgctg ctgtaaataa gcaggagagt tcaatgctgc cagttggttg aatggaagaa 360
 attgctgggg gtaggcagca ggtagctggc tgaatggtag ttgttgttgt tgcaaataag 420
 aagcagagtt caatgcagct agttgggttg atggaagaaa ctgctgttgc tgagagtagg 480
 cagcaagggt tgctagcaca agttgttgga gttgttgtgc cctgatgttt tgtgccataa 540
 atgcacaaaa ggtaactgat gtaatagggc tgatg 575

<210> 6813
 <211> 538
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-A6

<400> 6813

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 ggagggatta caaaacttcc acgtgccttc gtggggcaaa atatgagtgc taattaaacc 180
 cttatgtgtc aatttagtgg ggggctttga tgccaaatat aatctgtctt acgatctgta 240
 cacactgtac aagtttgcac ctcaccattg gacgagactg gcaaaggagc tcctaaaacc 300
 agtttcaggg agatgggtgta aggctcgcca aagaatgaac cgaccaccaa tgacgtctat 360
 gcttgggagg gtccctggta tttgtacatg gattccttct tatgctcagg atcaaggctg 420
 ttccttagcc caagaagtgc ataatgtaaa gcacgagcag atgctgagat tggagctact 480
 gcagcagctg gtgctccaca gattgcagta gccagaactg atccgacacc agcccctc 538

<210> 6814
 <211> 542
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-N6-A8

<400> 6814

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 cagtataaat cataaaaaat ctagaagatg gcaccaccaa tgggtgggcca ttgcaataag 120
 gtggtgggat tcgtcaaagc atgttggcta aatggcagca attgttgttg ttgtaagaag 180
 gcaacaatgt ttgccacatt atgtgggtag aatggcagca attgttgttg ttgcaagaag 240
 gcattaatgt ttcccacaac ctgtgggtaa aatggcaaca attgttgttg tcgcaagaaa 300
 gaagcaatgt tttccacagc ttgcagatgg aatggcagaa gctgttgttg cagtaagaag 360
 gcatcagggc tcccgacaag ttggttaaataa ggtagtagtt gttgtgcctg caagtagaca 420
 gcaggggttca ccccaactag ttgattgaat ggaagaaatt gttgttgcctg gagataacca 480
 gcaagggttcg ctgcaactac ttgattgatt gttggtagca actgttgttg tagttgttgt 540
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<210> 6815

<211> 557

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-A9

<400> 6815

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 ctagctacaa gctcattcct catgcactat ggtggggggg gttacttgga gggcatcggt 180
 ccgccgccga gaatccaggg gcattcggcg acgccgctga tgggtggccag gttgcactcg 240
 gcctccgtga cgagggtggc ggccaatccc ctctgcacct cccgcgggca gcccggcagg 300
 tcctctaggc ggccctccag ctgcgcgtcc gggcccgggc ggatcgcgcc gtccatgagg 360
 atgctcagcg ccgtgcaccg gcagtacgcc gggatgtccg ccagctcccg gcagcatctc 420
 ctcttcagct ccggccacgg gaggcgcggc ccgatgccgc aggtccggct ggtcacgtac 480
 cagcggcagc tcgggagcgg gttgtgcggg atggcccacc ccggcacgca ggaggtcccg 540
 gcgctggcgc tggcagc 557

<210> 6816

<211> 605

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-N6-B1

<400> 6816

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cacgcgtcgt tatcttgga cctctanacg gccgggggggt tgtttgtggt tttttttttt 60
tttgaagcag aatttcatgt gcttattatt ataagttccg aacgcaccat aatcagagtc 120
cttatgaatc caccagtaca aaactgcccc acggagagtg aaaaaacata tttattccga 180
cgcaaacggg gggggggaac cagtaaatac cactggctga gtacttagaa cattgttgtg 240
ggtgattcag gttttattca cgaaagctgg gatactatcc tcatttcagt tgagtaactg 300
cggcgtgtat ggcatttgca agatggggca cagtccttat gctcaaaccg gccatgctga 360
tcctcccatc agatgtcata taaatgtggg attcctgcct catgaatgcg acttgttcgc 420
tattcagccc agtgaaagta aaaatcccaa tttgcttaat gatatgggtc caatcaccag 480
gggtgtcctt tggattccag cgcattaaat agtgggtgcc tcatggtaat gatcctatta 540
gccatgggct ttagttccag agtccattcg gtggaacatt tggcttgtcc ctgagtgggg 600
cagca 605

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<210> 6817

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-B11

<400> 6817

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cgtacttact tggatcctta acggccgggg gggggggggt tttttttttt tttttttttt 60
gttggttttt tttttagaaa gggctttctt ttggccgggtg gtgtggggcg ttccccagaa 120
ataaaaaagg gcctttttta aagggggccc cccaagaag ggttgtttgt aaaacagggg 180
gggggggggg aaaacaagtt ggttgaatgg ccacaattgt tgccgttgta agagggggcc 240
cccgtttggg gccacgtgct ggttgaaccg gaacaactgg ggggtgggtca aaaaaggagc 300
aggggttaca ccactaact ggctgaaagg gagaaattgg tgctcgggcc cctggggcca 360
ccccggaatt tcgggccggg acctggaggg gttccaactt tccctatagg ggggggtatt 420
aaagcttggg ggaatcaagg gcataac 447

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<210> 6818
 <211> 97
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-N6-B12

 <400> 6818

 caaaataaac tcaatcaata tatttttatta ttttctaaaa aaacacacct cntttttaagc 60

 cccccattat cnattccatc ttttttttaa tctaaaa 97

<210> 6819
 <211> 170
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-068-Q1-N6-B2

 <400> 6819

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 tgaactataa ctcataaaaa atctaaaagg gggccccacc aatgatgggt tgttggtaaa 120

 acgctgctgg gtttgtcaaa gcaagttggt ggaagggcag caattgttgc 170

<210> 6820
 <211> 573
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-N6-B5

 <400> 6820

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 taggaggcca catacatcag ccaaaaaact tcattattga attacaacta ataagcaatc 120

 taaaaaaggc accccaatg atgtgttggt ggtagagagg gtggtgggtt tgtcaaagca 180

 agttggacaa agggcagcaa ctgttgcagt tgtaagaggg ttgcgggggt agccacaaac 240

 tgctggtaga acggaagcaa ttgttgttgt ttcaaaaagg aagtggggct tgtttagct 300

 agctggccaa atggtagtag tatttgcctgc tggaaataag cagaggggtt cagtgcggcc 360

aattggttaa atggaaaaaa ttgttgctgc tgaaagtagg cagtantag ctggctgaat 420
 ggtagtagtt gttgttggtg taaataagca gcaggggttca atgtaaacag ttggttgaat 480
 ggaagaaatt gttgttgctg agagtaggga gaaaggtttg ccagaactac ttggctgac 540
 actggtagca ccagttgttg caactgttgt gcc 573

<210> 6821
 <211> 566
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-B6

<400> 6821

gggtggggtt ttttaaaaat gtactttctt atttctggga cgccacaaac atcatccaaa 60
 aaacttcatt attgaactat aactcataag caatctaaaa gaggcaccac caatgatggg 120
 ttgttggttag aacactgttg agtttgtcaa agcaaggtgg ttgaatggca gcaattgttg 180
 cagttgtaag aggggtgccag cgtaggcat agcgtgcagg tagaacggca acaactgttg 240
 ttgtgtcaag aaggcagcag ggctcacatc agctagctgg ctgaatggta gtagttgttg 300
 ctgctgtaaa taagcagcag agttcaatgc tgctagttgg ttgaatggaa gaaattgctg 360
 ggggtaggca gcaactagct ggctgaatgg taattgttgt tgcaaataag cagcagagtt 420
 caatgcagcc agttggttga atggaagaaa ctgatgttgc tgagagtatg cagcaaggtt 480
 tgctagcaca agttgttgta gttgttgctg cctgatgttt tgtgccacca aatggaccaa 540
 aggtaactgc tgtaataggg ctgacg 566

<210> 6822
 <211> 485
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-B7

<400> 6822

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 catcagacaa aaactttatt attgaactat aactcataag aaactaaaag aggcaccacc 120
 aatgatgggt tgttggtaga acgctgctgg gggggggcaa agcaagttgg ttgaatggca 180

gcaattgttg cagttgtaag aggggtgccag cgttaggcgc agcgtgctgg tagaacggca 240
acaactgtgg ttgtatcaag aaggtagcag ggctcacacc agctagctgg ctgaatggta 300
gtagttgttg ctgctgtaaa taagcaggag agttcaatgc tgccagttgg ttgaatggaa 360
aaaattgctg ggggtaggca gcaggtagct ggctgaatgg gagttgttgg tgttgcaaata 420
aagaagcaga ggtcaatgca gctagttggg tgaatggaag aaactgctgt tgctgagaat 480
aggca 485

<210> 6823

<211> 479

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-B8

<400> 6823

gccgtggtgg ggggtttttt tttaacatca taatgtatgg gactttattg cttaacaccg 60
ttatatgagt ataacgggta ggtagacaca attcttcaat tgcaaacc actaatgtca 120
ttgctgctgc atggattatt ttggtagtagt gggggggggg ggccgcacat tgatggtagg 180
tattgtgctg ctgtcaagat tgccaccgca ctttgagtag cttgttgaga tccacataac 240
tcacatgggt gttgttgttg ctccctcctgg attatggatt gaaccatgtt gtaaattgct 300
tgggtgaatgt attgtggctc aatctgccta agatcatgac aacattgttg ctgcaatacc 360
tggcagctac ttggttgtat caaacgtgat tggagaaaag gcattaccaa agggctgcgc 420
tgctgcctta ggaattcatg acaatttttt agatttgagc tactgctata gtagttata 479

<210> 6824

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-B9

<400> 6824

ggggataaat ctcatgcaat atattgatta tttctaggaa acacacgtcg gtatgagggg 60
cacctttatc 70

<210> 6825
 <211> 462
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-N6-C10

<400> 6825

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gcggggggttg gggggggggt gntttttttt tttcacatta aaaatgctgg agatgtaact 60
tcttattttct ggttggccac atacatcatc caaaaaactt tattattgaa ttacaactaa 120
taagcaatct aaaagagggc accaccaatg attttttttg gggggggggg gggctctttct 180
ttcaaancaa gttggacaaa gggcaacaat tgtttagtgg gtaagagggt tgcgggggta 240
gccgcaaact gctggtagaa aggcagcaac tgttgctgtg tcaaaaagga agcacgggtt 300
gctgcagcta gctggctaaa tggtagtagt atttgctgct gcaaataagc agcgggggtt 360
agtgcggcca attggttaaa tggaagaaat tgttggtgct tagagtaggc agtagctagc 420
tggctgaatg gtaatagttg ttgctggaaa taagcaacag gg 462
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<210> 6826
 <211> 204
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-N6-C11

<400> 6826

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gggggggggtt tttttttttt tttttttttt tttttctggg accccacaaa catcatccaa 60
aaaacttcat tattggaact ataactcatt aagcaatcta aaaaaaggcc ccccccaat 120
aatgggtttt tttggtaaaa acactttttt ntttttttca aaggcggggg ggggtggaatn 180
ccaacaaatt tttccctttt taaa 204
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<210> 6827
 <211> 550
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-C12

<400> 6827

ggggtggttt tttttttttt tttttttcat ccaaaaaact tcattattga actataactc 60
 ataagcaatc taaaaggggc accaccaatg atgggttggt ggtagaacac tgttgggttt 120
 gtcaaagcaa gttggttgaa tggcaggagg gggggcggtt gtaaaagggt gccagcggtta 180
 ggcatagcgt gcaggtagaa cggcaacaac tgttgttggt tcaagaaggc agcagggctc 240
 acatcagcta gctggctgaa tggtagtagt tgttgctgct gtaaataagc agcaaagtcc 300
 aatgctgcta gttggttgaa tggaaaaaat tgctgggggt aggcagcaac tagctggctg 360
 aatggtaatt gttgttgcaa ataagcagca gagttcaatg caccagttg gttgaatgga 420
 aaaaactgat gttgctgaga gtatgcagca aggtttgcta gcacaagttg ttgtagttgt 480
 tgtgccctga tgtttgtgc caccaaattg accaaagttt actgctgaaa tagggctgac 540
 ggttgttgga 550

<210> 6828

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-C2

<400> 6828

aaaaccaac caatttttg ttttttttaa gaaaaaaaac cccgggttg gggccccctt 60
 ttggggggccc ctttttttg aaaaaaaaaag agggggcccc ccaaagggg gggggggccc 120
 cccaagggg gggtttttaa aaaaaaacg gggggggggg aaaaattttt ttttttttg 180
 agggggcccc ccaagggg ggccccccc caaaggga aaaaaccgg ggccttg 240
 gggggcccc aaaaaggtcc aaaaaattt ggggggaaa ggaaaaatt tttaaaaaga 300
 ggaaaaaagg tttccccac tttggggga tagagggggg caaattggg gaaaaaatt 360
 tttttggggg tttggggg gtttgggcc agagggggg gtaaaaaaa aaaattttt 420
 tttttttggg gaggggggg ggt 443

<210> 6829

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-C3

<400> 6829

ggggccaaaa caataagggg ggggggtttt ttgggtaaac ccccttttgg gggtaaaagg 60
gggggggaac ccaatttttt ttttggaac cccccattg ggttttgggg ggggggggtt 120
tttttggggg gggggggggg gcccccccc cccttggggg ggggttttgg gcctttttaa 180
aaatcccccc ccccttttgg gggggggggg ggaaccccaa aaaccaaagg gggggggggg 240
ggggccccc cgggattagg ggaaaacccc cttttaaaat tgggggggaa aagttttggg 300
gccaaattgc ccaaaaaaaaa aaaaacattg ggggggggaaa ccccggggat ttttgggggg 360
ttaaaaacgg ggggggaaaa ag 382

<210> 6830

<211> 571

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-C4

<400> 6830

ggggtgtttt ttttttgaga cgaaagacaa ccttgttcat gcattctacgt tccatttcgt 60
agattgggtc catactgcgc attttcactt gtacagattc taaactaaac tactacagga 120
tattagaatc aacaagacca gatatatagc tccaagggaa ccatagtcatt ctttcgagaa 180
agatccatag aaaactgcta gtatgtagca acgagaggtg agaagattac ccttgctcta 240
tgctccaact ctcaaaggtt ctccatctgg atattgctct tgagtggcac gtactcccca 300
aggtagcctc caaggtgctc atacaatgca gtgcggtcaa tctgctggct gtggaaggcc 360
ttgcaggcgt agtagaagac actctgcacg agcagtccta gcagattgac agagacaaga 420
acgcacacca gcacgggggc cgacaagcag ccggccaggc aaggccaggc cgaagctccc 480
ctctcgggtg cgtcccttaa cgacagcggc acgggaacag caacgaggtc gcgccacaaa 540
ccgcggaata ggagacgact agcgtggctg c 571

<210> 6831

<211> 575

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-C5

<400> 6831

gttggtgttt ttttttggaa atgtaacttc ttatttctag gaggccacat acatcagcca 60
aaaaacttca ttattgaatt acaactaata agcaatctaa aagaggcacc gccaatgatg 120
tggtgttggt agaaggctgc tgggtttgtc aaagcaaggt ggacaaaggg cagcaactgt 180
tgcagttgta agaggggttc ggggttagcc acaaactgct ggtagaacgg aagcaattgt 240
tggtgtttca aaaaggaagt ggggcttggt gtagctagct ggccaaatgg tagtagtatt 300
tgctgctgga aataagcaga ggggttcagt gcggccaatt ggttaaattg aagaaattgt 360
tgctgctgag agtaggcagt agctagctgg ctgaatggta gtagttgttg ttgttgtaaa 420
taagcagcag ggttcagtgt agacagttgg ttgaatggaa gaaattgttg ttgctgagag 480
tagggagaaa ggtttgccag aactacttgg ctgatcactg gtagcacgag ttgttgacgc 540
tggtgtgccc tgatggtttg taccaatgac tgcac 575

<210> 6832

<211> 544

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-N6-C7

<400> 6832

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gcttcttgag cttgtcgacg cgctgctgca tctggctgag cctgacgacg agctgggtga 120
cggagaagag gatccagtan aggaggagcg cggcggcgat gaggagcgcg ttgcgctgcg 180
acttcatgac ggacttgtgg tggcggaggt gctcggaggg ggtgcaggcg tgctcgtcgt 240
cgcaggtggg ccgcgtctcg tacttccagt agatgtccat gagcaggaag aggcagaagg 300
gcaccacgga catcatgggc ttgagcgcgc tccgcaccac ggagaccatg ccccggcgca 360
ggcgtccag ccccggcagc gtcagcagca gcagcatgac cgctccgcg cccgcccgt 420
agcccagcac caccactcc agcgccatgg ccggtggatc gaggcctcga tctgggtcga 480
gcgggaggag ggaactggga agatttgggg atttggggtg agcattcagg aacacaccaa 540
gcga 544

<210> 6833
<211> 544
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-C8

<400> 6833

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tatatagcca tgtctggagt ctggagtctg gactagcaag caaccgagat cgatgcatga 120
tacagagata gattcatcgg gttgcatgag catggcttgt tgccagccac tatgttacac 180
ccaccacgca tgtacaaagt tctgtatcgt cgcctcgctt ccgcctgatg atgatcgatc 240
agtgcagcgc cgtcaggaca gtagaccctt ccaccacctt gaaagtggca ccgcagatct 300
cttcttcgtc ggccggggaca gcggtgacct tgtgcttggg gttctcgtag cacttgagcc 360
ctccgagggc gttggagtag aagcagcctt gcgggaacgg cgcgagcgac ttgccgcatg 420
agcctttgag catgtcgatg tctcgggaga aggcgacgca gccgtcggcg gtgatcccc 480
agaagagcgg caccctgccc ttggggctct gggggcggag gagcgctgg ttggtgtggg 540
agta 544

<210> 6834
<211> 538
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-D1

<400> 6834

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tggccacata catcatccaa aaactttatt attgaattac aactaataag caatctaaaa 120
gagggcacca ccaatgatgt gttgttggtg ggaggccggt cggctctgtca aagcaagttg 180
gacaaagggc aacaattggt gtagttgtaa gagggttgctg gggttagccg caaactgctg 240
gtagaaaggc agcaactggt gctgtgtcaa gaaggaagca cggtttgctg caactagctg 300
gctaaatggt agtagtatct gctgctgcaa ataaacagcg gggttcagtg cggccaattg 360
gttaaatgga agaagttggt gttgctgaga gtaggcagta gctagctggc tgaatggtaa 420

tagttgttgc tgcaaataag cagcaggggt caatgtaaac agttggttga atggaaaaaa 480
 ttgtgttgct gaaagtaggg agaaaggttt gccagagcta cttggttgat cacaggta 538

<210> 6835
 <211> 586
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-D10

<400> 6835

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 ttcacagcc tctcatttac tatgtgttgc ttgaacagtt acaattgaac atagctgttg 120
 aaatcctaaa ctactaaac tgcattgtct gaagaggggg gcggggggct aagctagggc 180
 acttcataca agtgattgtt tagttttcca cgaaaggatc cttcaagacc accagagtcc 240
 agaggtcatt gtgtaggggt actattgtag cgccttgcaa ataaattcat atgggggaac 300
 tttgtcaaca tttccccagc tagccattgt gggttgcgta gctagcatct tcctggcaaa 360
 tgttgcaaca tcatctagag taattttctc catacattga aggaagtagt caataggctt 420
 cctgcaacca taagataaca gctgccttcc aatatctttg gcaacaacta ccctagattc 480
 aagattcatt aatacagatg gaaatcgttg gaattttttt gctcggttgc agttcaaccc 540
 attgtcactt tttccaggag gtggcgacag caatttaatt cactta 586

<210> 6836
 <211> 533
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-D11

<400> 6836

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 attccattt tctctcata gttattatca ttattgtacg aacacgcgag aatattgcga 120
 gccacgtca gagctacgtc attctgggtt gggcgcgca cagtacacat gctgcgcctt 180
 gcacgtcgcg ccgactcact cttttttttt taaccctggt agctagtact ggtcgccgcc 240
 ggagaagatg ctgcactcct ggggctccga caggcggcac atcatcgga accccgcggc 300

gtactcccgg gccttcgtaa gcctcacgcg gccgatcctt ggcccgggtgg tgccggggacg 360
acacgggtgga tacatctgcg tttggatatcc ctctcctgcc cggctgcagg ggtagtagta 420
gccccctgt cctcctcctc ctccctgcgg cggcgggtgc tgctgccgcc cccatggcca 480
ccagcctttc tccagagcgg gatgggcctc ctcgtagccc ctgaccatgc tcc 533

<210> 6837

<211> 149

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-D12

<400> 6837

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aaaagttgtg atatgaataa accaaacagc caaagggcat gaccgtctct cgatcgatcc 120
tggtctctctc tctctctctc tctctctctc 149

<210> 6838

<211> 563

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-D2

<400> 6838

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gtttacagac atgatgacgc agaaaaaaca cagcaacgta catgcgaatc aaacttacia 120
caccaaattt cgtagaaaag gaaaccatga cacttgaaac acatgcacaa ccctatactg 180
gactcgcgaa caagcaaaca gggtcacgga cgacaggatc ggaccaagtg ctgctgtgtc 240
atacacgcgt ctagtgatcc ctggtgatgg tagaggagtc cttgttggtg ttggtgttgg 300
cgtcgccctg cttgtcgtcc ccgcccattc ccagcgtgct catcaccgcg tccttgggcg 360
ccgcccgcgc gctcttcacc tgctcagtgg cctgctggat gacgcccgcg gacttgtcct 420
tgccggagac ggcgggtgtc ttggcgtact gcccggcctc ggccggcctc tgcttggtg 480
cctccatggc gtcggctgcc ttctgcctag cggcctccgt cgtctcgccg gccttctgct 540
tggtcgccctc cgtcgtctcg ctg 563

<210> 6839
<211> 570
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-D4

<400> 6839

ggcgtggggg ggttttttac agaaaacata tatcaattat tgtataaacc tattaaggt 60
taaaaccaat tttaatttgg aacagaagga gtactttttt tcttttcatt tcaattgttc 120
attcaggtca ttgtcacac tgacactgcc acccatgggg gtgcgtgaca cattattact 180
caatcatcgc cgctaaatga ctcaactagc tagctagcca gcggctatac tacagcacat 240
agttttcttca gtggggggaca ccgccggcag cagcgtaggg gcatggagtc ggctgctgca 300
ggccgcacat cgccgtcagt tgctgcgcta tctgcgccgc caacaggccc gcgacctggc 360
cgctttgcgg ctgctggtgc aggatggact ggaggaccaa gccgaagatc gcctggtacc 420
ggtgctgggg gtccacctgc ctgagctgct ggcaaacactg ctggcgtaac tactggcact 480
gaggggagca gtagggcggt tgctcgtgggg cttcactgat gccttaggaa cttgacgcac 540
tggcccagga tcgggggtgct gccaacgccg 570

<210> 6840
<211> 59
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-N6-D6

<400> 6840

ccccccgggg ggtttttttt tttttttttt tttttttttt tttttttttt tttgntttt 59

<210> 6841
<211> 558
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-N6-D8

<400> 6841

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caattttaat ttggaacaga tggagtactt tttttctttt catttcaatt gttcattcag 120
gtcattgctc aactgacac tgccacccat gggggtgctg gacacattat tactcaatca 180
tcgccgctaa atgactcaac tagctagcta gccagcggct atactacagc acatagtttc 240
ttcagtgggg gacacccccg gcagcagcgt aggggcatgg agtcggctgc tgcaggccgc 300
acatcgccgt cagttgctgc gctatctgcg ccgccaacag ccccgcgacc tggccgcttt 360
gctggctgctg ctgcaggatg gactggagga ccaaaccctg gatcgcttgc taccggtgct 420
gctggctccac ctgcctgagc tgctggcaac actgctgccg caacgactgg cactgaggcg 480
agcagtaggg cgtccccctc gggctgcact gatgcctcag gaactcgacg cactggccca 540
agatcggggg gctgccaa 558

<210> 6842

<211> 155

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-N6-D9

<400> 6842

gggtgttttt tttaaaaact aaaatgtact ttcttatttc tggggcgcca ccaaactca 60
tccaaaaana cttcattatt gaactataac tcataagcaa tctaaaagag gcaccaccaa 120
tgatgggttg ttgggtagaa cactgttggg gtttt 155

<210> 6843

<211> 500

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-E1

<400> 6843

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tgatttactc agcaacacaa acagtacagt tatacacttg gaactttaaa aactttacaa 120
gctcagcat aagaacaggg gggagaataa cttaatgggg ggggggggat taaagaatga 180
tacattacat tcaacaccta caagatctca ctgtaagtag atctgggtga ctacatcagg 240

gggataattt acataacctc tgggtatacat ttggacagat cattcttaag caccaagcac 300
 ttcctcaatc caacttatgc cccatcaaaa tataattgca aaggctttgg gtttcagtaa 360
 ctcaccgggg agcaatgcaa gggcggttcaa aattgggtggg actccttttt gaattagcat 420
 gttttctttt ggggtcaaagt tgggtatgtga atgaggtttg ctttttgcgg cctttctcat 480
 gtgtgtcttc tattaagctg 500

<210> 6844

<211> 520

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-N6-E10

<400> 6844

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 cctcacacgg gggggggggg ggcancaata ntacttctca tnacacttta tagttttcct 180
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 tgcattcagtt aaaccttcat agcaactgtg gtgctcaacc tcaactgaat catcacaact 300
 gggaggacta ggggtcatcca tatccataag accgcaaaca gatgcttttt cttgtgacat 360
 gtgttctact ctgcacaaca cttcattcaa attcattgtg cacaagtcgt agtgcttcat 420
 tttcacaact gacgaatgac atccgttttt tacttctttg aacctacaga acggaatggg 480
 tggatgaggt gctggactca ggggatttgg ggggtgccaac 520

<210> 6845

<211> 550

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-E11

<400> 6845

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 aaaagaggca ccaccaatga tgggttggtg gtagaacgct gctgggtttg tcaaagcaag 120

ttggttgaat ggcagcaatt gttgcagggg gggggggggg ccagcgtag gcgcagcgtg 180
 ctggtagaac ggcaacaact gtggttgat caagaagggt gcagggctca caccagctag 240
 ctggctgaat ggtagtagtt gttgctgctg taaataagca ggagagttca atgctgccag 300
 ttggttgaat ggaagaaatt gctgggggta ggcagcaggt agctggctga atggtagttg 360
 ttgttgttgc aaataagaag cagagttcaa tgcagctagt tggttgaatg gaagaaactg 420
 ctgttgctga gagtaggcag caaggtttgc tagcacaagt tgtttagtt gttgtgccct 480
 gatgttttgt gccataaat gcaccaaagg taactgatgt aatagggtg atgattgttg 540
 gaggaacact 550

<210> 6846

<211> 535

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-E2

<400> 6846

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 tcgccagttt tcataggctg gggacatcaa tagatgaatc ctttgaatgc agacaaagg 180
 catcgttgat atatcttgc caacattgcg ccgcagaatc tctagtcaac aaataatcaa 240
 ctattgttga gttggtattg accccaacac catccacata tagatgctca tgccttccga 300
 cgaccgactt gagcaacgaa tccagctttg attggagcaa cggaccttga agatccacac 360
 tgttcgcagc gaaggaagaa cagacgattt tccttgga gaatggatc agggctcttg 420
 catccattgc agatgacgta ctcatgatg tatctcctca ggattgcttc aaagtttttg 480
 ggggcaaact ttcctttgat caccaacctt tgctgcccac caagtgacct gcttg 535

<210> 6847

<211> 570

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-E4

<400> 6847

gcgcgtgggg tttttttttt ggaacaatac ttttttcttt tcattttcaat tgttcattca 60
 ggtcattgct cactactgaca ctgccacca tggatgatgcg tgacacatta ttactcaatc 120
 atcgccgcta aatgactcaa ctacttagct agccagcggg tatactacag cacatagttt 180
 cttcagtggg ggacaccgcc ggcagcagcg taggggcatg gagtcggctg ctgcaggccg 240
 cacatcgccg tcagttgctg cgctatctgc gccgccaaca gccccgcgac ctggccgctt 300
 tgcggctgct gctgcaggat ggactggagg accaagccga agatcgctg gtaccgggtg 360
 tgcggctcca cctgcctgag ctgctggcaa cactgctgcc gcaacgactg gcactgaggc 420
 gagcagtagg gcgtcgccgt cgggctgcac tgatgcctca gaaactcgac gcactggccc 480
 aggatcgggg tgctgccaac gccgcaggtt cctgagctt ggcacgggct tggatgcggc 540
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<210> 6848

<211> 548

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-N6-E5

<400> 6848

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 taatcaatct aaaagaggca ccaccaatga tgtgttggtg gtaggaggct gctggggttg 120
 tcaaagcaag ttggacaaag ggcaacaatt ggtggggggg ggagagggtt gcgggggttag 180
 ccgcaaactg cttgtagaaa ggcagcaact gttgctgtgt caagaaggaa gcacgacttg 240
 ctgcagctag ctgcgtaaat ggcagtagta tttgctgctg caaataagca gcgggggttca 300
 gtgcggccaa ttgggttaaat ggaagaagt gttgttgctg agagtaggca gtagctagct 360
 ggctaaatgg taatagttgt tgctgcaaat aagcagcagg gttcagtgtg gacagttgg 420
 tgaatggaag aaattgttgt tgctgagagt agggagaaag gtttgccaga gctacttggt 480
 tgatcacagg tagcacgagt tgctgcanct gttgtgccct tgagggttgt accaatgact 540
 gcaccaaa 548

<210> 6849

<211> 565

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-N6-E7

<400> 6849

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taaaaacttt attattgaac tataactcat aagaaatcta aaagagggca ccaccaatga 120
tgggttggtt gtagaact gctgggtttg tcggggcggg ggggttgaat ggcagcaatt 180
gttgCagttg taagaggggt ccagcgttag gcgcaacgtg ctggtagaac ggcaacaact 240
gtggttgtgt caagaaggta gcagggctca caccagctag ctggctgaat ggtagtagtt 300
gttgctgctg taaataagca ggagagttca atgctgctag ttggttgaat ggaagaaatt 360
gctgggggta ggcagcangt agctggctga atggtagttg ttgttgttgc aaataagaag 420
cagagttcaa tgaacctagt tggttgaatg gaagaaactg ctgttgctga gagtaggcag 480
caaggtttgc tagcacaagt tgttgtagtt gttgtgccct gatgttttgt gccaataaat 540
gcaccaaagt aactggtgta atagg 565
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<210> 6850
 <211> 508
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-068-Q1-N6-E8

<400> 6850

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ggcgcgcggg gggggggggg tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt taaaagctg aaatgcattg aactttttta ttacaaacag gtacatgatt 120
tggaaggggt tccttttgcg agcgaaacta ggtgatgggg gggggggggg gacattctaa 180
cttataaaaa ctctccttcg ggggtggggg ggcaagtttt gtttaattag attcaatcac 240
gggggggtca gatccttttt attggccact tgggtctcaa acctccaaca aatgagcttt 300
ctcgttcaaa atcgtcccaa acccttccca tagctcccat agctcattcc gtaaccatga 360
caagtccatg acagggccca atgtcgatgg cccaggtac aataaggggt ggtgaggaga 420
ctgaaacaag atcccaacag ctagggcagc taccaagcca ataccataac ctgttacagc 480
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ataccacaca taattcccc cttttggg

508

<210> 6851

<211> 567

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-N6-F1

<400> 6851

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catccaaaaa acttcattat tgaagtataa ctcataagca atctaaaaga ggcaccacca 120

atgatgggtt gttggtagaa cgctgttggg tttgtcaagg ggaggtggtt gaatggcage 180

aattgttgca gttgtaagag ggtgccagcg ttaggcgcag cgtgcaggta gaacggcaac 240

aactgttggt gtgtcaagaa ggcaacaggg ctcacatcag ctagctggct gaatggtggt 300

agctgttgct gttgtaaata agcagcagag ttcaatgctg ccagttggtt gaatggaaga 360

aattgctggg ggtaggcagc agctagctga ctgaatggta gttgttggtg caaataagca 420

gcagaattca atgcanccag ttggttgaat ggaagaaact gctgttgctg acagtaggca 480

gcaaggtttt cctagcaciaa gttgntgtag gttgttgctg cttgatgttt tgtgccaaca 540

aatgccccaa aggtaactgc tgtaata 567

<210> 6852

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-N6-F10

<400> 6852

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ttattttttt ttttttgagc attataatta caattagtat tcttattcaa atatcatagt 120

acaaacatca taatgtatgg tactttattg cttaacaccg ttataggagt ataaccgcta 180

ggtaaacaca gggggggggg ggggaacacc actaatgtca ttgctgctgc atggattatt 240

ttggtggtat gagtgggtaca agccgcacat tgggtggtagg tattgtgctg ctgtcaagat 300

tgccaccgca ctttgagtag cttgttgaga tccacataac tcacatgggg tggttggtggt 360
gctcctcctg gattatggat tgaacatgt tgtagattgc ttg 403

<210> 6853
<211> 517
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-F2

<400> 6853

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gcaccattat cgagtacatc tcatatgtaa tctaaaagat ggcacctcca acgatggggt 120
gctgctgtag gaaggcagcg accaatgggt tagccaccgc tagtggatta agtaactggt 180
gtcgctgttg taggtaccca gcagagttcg acacagtcag ttggttgaat ggaagcagct 240
gttgcaagta ggcagcaggg tttgccacag ctagctgagt cagagctggt acaatctggt 300
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tcagttgttg ctgttgtagg taggcggcag ggttcaccat ggctagttga ctgagcgctg 420
gtagaaaactg ttgcaattgt tgttggttggg ggtatgcaac tatgtttgcc agagcaagtg 480
ggttggatgc aagcaactgc tgttgcaagt aggcgac 517

<210> 6854
<211> 472
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-F4

<400> 6854

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ttttttatat cacaagaaca aatccggatc ccctttaatt attgttccgg gtgaacgatc 120
cgagaaagca ttcattcttct tgctgggctt attattgagg cgtatgagct agctacaagc 180
tcattcctca tgcactatgc tcttcgcagt tacttggggg ggattgttcc cccgcccaga 240
atccaggggc attcggggac ccccttgatg ggggccaggt tgcactcggc ctccgtgacc 300
aggttggggg gaaatcccct tttcacctcc cgcgggcagg ccggcagggt ctttaggggg 360

gctttcaact gcgcgtccgg gcccgggggg atcgcgccct ccatgaggat gcttagcgcc 420
 ttgccaccgg cataccccgg gatgtccgcc agctccccgg agaattttct tt 472

<210> 6855
 <211> 510
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-F5

<400> 6855

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 tttttttttt tttttttttt ttttttttaa aaaggggggg ggggggtttt tttttggggg 180
 ggcccccaa caaaaaaaa aaaatttttt ttggggcctt accccaaaa aaaaaaaaa 240
 ggggggcccc cccaaagggg ggggggggga aaaaaaccgg ggggttttaa aaaaaaagg 300
 ggggaaagg gaaaaattt ggcttttaa aaagggggcc ccttttagcc ccccggtgtt 360
 gaaaaaaca aaaaaattg gggttgtaa aaagggggg ggggcacaa aaaaaaatg 420
 ggaaaaaaaa aaaatttttt ttccctttaa aaagaggag gagaaaaaac cctcccatg 480
 gggaaaaaaaa aaaaaattg gggggggggg 510

<210> 6856
 <211> 501
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-F7

<400> 6856

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 tactgaaatc aacgatgacg ggtaaaactc ggaggacggg ggtgcccata cccaatacag 180
 ctacaactgt ggcattggag agcaaaactac catgctataa catatatatt attagtatta 240
 agactcctcc gttagtttag accagcaatg gtgtcgactt tccctcacac tctgaaacga 300
 gttaagcaca tgagctccta aaaagtaggt gcggagaaag gattggcagg aagcccaaag 360

ggcagaagac gatggggaaa cggcccccca gacctgtttc ggtcacttgg agctgtggcc 420
 ggccctctgcg cgttcattgca atctacatgt gaggagtctg ctcccttttag gaggctcatc 480
 actcgggaag aataagccga t 501

<210> 6857
 <211> 550
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-F8

<400> 6857

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 ctgcaaggca gggttcatga aagagaactg gttgtatggc agcaattgtt gttgctgctg 180
 caggaaggta gcgaccaatg ggtagccac tgccaatgga ttaagtaact gttgtcgctg 240
 ttgtaggtac gcagcagagt ttgacacagc cagttgggtg aatggaagca actgttgtaa 300
 gtaggcagca gggtttgcca cagctagctg agtcagagct ggtacaattt gttgcagcaa 360
 ctgttgttgt aggtacgtag gtgcattgcc caccgcgagc gggctagatg aaagtagttg 420
 taggtagacg gcagggttca ccatggctag ttgactgagc actggcataa actgttgcag 480
 ctgttgttgt tgctggtagt cagctacgtt cgccagagca agtgggttgg atgcaagcag 540
 ctgctgttgc 550

<210> 6858
 <211> 571
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-G1

<400> 6858

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 ctaaaaaagg cacctccaac gatgggttgc tgctcgaca agacagggtt tatcaaagag 180
 aactggttgt atggcagcaa ttgttgctgc tgtaggaagg cagcgaccaa tgggttagcc 240

actgctagtg gattaagtaa ctgttgctgc tgttgtaggt acccaacaaa gttcgacata 300
gtcagttggg tgaatggaag cagctgttgc aagtaggcag caggggttgc cacaactagc 360
tgagtcagag ctggtacaat ctgttgcaac aattgttggt gcaggtatgt aggtgcattg 420
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accatggcta gttgactgag cgcttgacaga aactgttgca gctgttggtg tggctgggtt 540
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<210> 6859

<211> 486

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-N6-G10

<400> 6859

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aagagggcac caccaatgat ggggttggtg taaaacactg gggggggggg ggggggcgan 180
ttttttnaat tncancaatt ntttcanttn taaaaaggtg ccaactttaa gcataacttg 240
cangtagaac ggcaacaact gttgttggtg caagaaggca gcagggtca catcaactag 300
ctggctgaat ggtagtagtt gttgctgctg taaataagca gcagagttca atgctgctag 360
ttggttgaat ggaagaaatt gctgggggta ggcagcaact agctggctga atggtaattg 420
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ttgctg 486

<210> 6860

<211> 509

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-N6-G11

<400> 6860

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ctgaacatct cttgaccaaa ctgcacnnga tacgtccgat gtccagaacg atgtattctt 120
cgcaacaggc accaaaatct cgtcaaacag gggggggggg gggggacana caaaaaaac 180
cccaggggtg cctgccggcg caatctgctg cgcacgggcg tcgggccgcc ggctacatca 240
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gcctgtagaa gctgcccctc cccttggtgc gcagcgggccc ggaccagtcg tacatcgcca 360
gggactcgat cttgtccagc accgcgctcg acgccgaccg tggcctgcgc tcgtcggcgc 420
cggcagggtc cgagccgtat cccaaggggg agcgcggggc ccccgatggc cggcgggtcg 480
tcgttccacc agtcctgct gacgtcgtt 509

<210> 6861

<211> 574

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-G4

<400> 6861

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taactacaag gactgccttc atcttgtcaa taatgtgaat cacgacaaat ccaaaatcac 120
aacatgaaac aaaatgatag attccacgcg taaggtagcc ccttactta gcattcttag 180
acaggtaatt cttttctcca tctcctcagt ttccttccct agaggtaaac taaaacacgt 240
tcagtaaggt cggatcgcgc aatccgacct tgatctgctg cttccgctgc tggggccata 300
gccgtaatta taatctagac caccgcagaa cctgccaaaa gatctcattg aaccataagc 360
tccgtaaagg tccatgggat caatgtaacc accaccagct gaatcattct caagtgggtg 420
agctgtgtct attgcaacct catggcccag aatttcattg cttctacgag ataccggttc 480
tgccacaccc tcatcagcga aggtgacaaa cccaaaacct cgggtggccac ttcttttggg 540
gtccttttga atttacgcat ttacgattcg acca 574

<210> 6862

<211> 528

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-G5

<400> 6862

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ggctgcgcgc cgggcgcgcg cgccaacgcg cctccgcca ctaatgtgag ctcccacggc 120
ggcgacgcgc cggccgactg ggtggtctgc cgcattttca ggagggccag gccggccac 180
cgcgcccgcc ttggtggtgg cgccaggag gaactagaag aggagcacgc ggcggaggag 240
agcccgctgt cctgcgtcac cgacgcctcc gagaccctcg accaggaaga ggatgacggc 300
gacgaaggga gcagcagcag caccgtcgcc tcctctaact gagactgagt agaagagttg 360
gctaccccat gtcgatcaga tcgcgggcgc catgtttctaa ttgccgtaga agcctcatca 420
tcagtaccta gttgcaatca atagagagac aagaagatcg gcctccaaca aaccaacaaa 480
aaaaaagcta agcgcttttg tggtagttg ctggtggagc tcgtcgcg 528

<210> 6863

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-G8

<400> 6863

gggggggtttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttaagg gggaatccac aacccccccc 120
caaatcccc caaaccaatc ctagggggag aaagggcgga accgcccctt tataaagggtc 180
cctttttccc aggaggaaaa acccaacttt ttacaagacc cccccccacc cccaaaccct 240
aacaaaaaag gaaaaaaatc ccctaaataa agctatatcc ccctttaaaa tttccatccc 300
ccttaaaaaa atttactttt ccccccaaaa aaaaccttaa aaaattgcac cctcaacctt 360
aaacccccaa aaccggaagg ggccccactt tttttttcat tcaaccactt cacaagtggg 420
gggtataccc tcgggg 436

<210> 6864

<211> 584

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-068-Q1-N6-H1

<400> 6864

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attatgaaaa cctacaaaca gttgggtcact tgggtattggt atagagaagg taaaaaaaaac 120
ttcgaaccaa cttcatatac cattgtgcgg cgccggacgt gaagccacga actaggtggc 180
cacaaacagc agggggcaagt tcatgtatgc tatacccaac tgagaacgct acagaacaaa 240
tacccaaaat actctcaatg atttatagaa tgtgctgatt gaatggttgc ggagatggct 300
tatgcctagg ggtcccatca catgtgactg gtttcagctc ccaggttgtg gagctggctc 360
ttcgggtggtt ggtgcaggtc tttgttgaag gagaggcgaa agcgccttaa caacgatgct 420
catgttgggc ctgaactctg cttcgtactg tgcacataga gctgccactg cagcaagctt 480
agcgactccc tttgggagat attctccctt caacctgggg atctacacat tgcttcacct 540
tgggtcttcac ttaacctttg gagtacccca tgtgactaaa cttt 584

<210> 6865

<211> 531

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-H11

<400> 6865

ggggggggggg tgtttttttt ttttttcaga caaaaaattt attattgaac tataactcat 60
aaaaaactaa aaggaggggca ccaccaatga tgggttggtg gtagaacgct gctgggtttg 120
tcaaagcaag ttggttgaat ggcagcaatt gtgggggggg ggagagggtg ccagcgttag 180
ggcgagcgtg ctggtaaaac ggcaacaact gtggttgat caaaaaggta gcagggtca 240
caccagctag ctggctgaat ggtagtagtt gttgctgctg taaataagca ggagagttca 300
atgctgccag ttggttgaat ggaaaaaatt gctgggggta ggcagcaggt agctggctga 360
atggtagttg ttgttggtgc aaataaaaag cagagttcaa tgcagctagt tgggtgaatg 420
gaagaaactg ctgttgctga gtaggcag caaggtttgc tagcacaagt tggtgtagtt 480
gttgtgccct gatgttttgt gccaataaat gcaccaaagg taactgatgt a 531

<210> 6866

<211> 491

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-068-Q1-N6-H4

<400> 6866

gcggggtgtgt tggggttttgg aacaatactt ttttcttttc atttcaattg ttcattcagg 60
 tcattgctca cactgacact gccacccatg gtgatgctg acacattatt actcaatcat 120
 cgccgctaaa tgactcaact agctagctag ccggggggggg ggctacagca catagtttct 180
 tcagtggggg acaccgccgg cagcagcgta ggggcatgga gtcggctgct gcaggccgta 240
 catcgccgctc agttgctgct ctatctgctc cgccaacagc cccgctgacct ggccgctttg 300
 cggctgctgc tgcaggatgg actggaggac caagccgaag atcgctggt accggtgctg 360
 cggcttcacc tgcctgagct ggtggcaaca ctgctggcgc aacgactggc actgaggcga 420
 gcagtatggc gtcgccgctc ggggtgactg atgcctcaga aactgnacgc actggcccag 480
 gatcgggggtg c 491

<210> 6867
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-068-Q1-N6-H5

<400> 6867

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 tttttttttt tttttttttt cggggaaacc cccccaaaa tcatttttta tcccacaaga 120
 tcatttttgt taaacagttc gaaaaaaagg tggggggggg ggggggagaa acctggtccc 180
 aacatacaaa acgacctgct cacaaaagca gttcaaaaaa aggggggggg ttccatgggc 240
 caaaaacagg ccaacgagag ctctccagcg ggaatatatt tttttaccaa tttctcccat 300
 gattcggggg gctcttgaat gaccttcagg ggggtattcct ttcttgctggg cttgttgccc 360
 aaaccaaatt tggtgggggg gtttccatca gggatttttg agcctctgaa ccaatctttt 420
 atggcagtca ggtcccccg aaaatgcttt t 451

<210> 6868

<211> 495
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-H7

<400> 6868

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tcatgatttg tcatagttct ggggagtacg cacacacaac acaaccgggc cattttttaa 120
ccaacactga cactgactcat gacaccaaca ggggtgtgggg ggggggagcct ccatatggag 180
agggggcacc agacgacgca ggcgcacgag cagcttaaag gacccatgac ttactgacca 240
ccacggggac ggagcacaag gtgggggggg ctctcctttt ggatgttgta gtctgctaag 300
gtgcgggccat cctccagctg tttgccggcg aaaatcaaag cctgctgggc ccgggggatg 360
cctcctttgg cctggatctt ggccttcaca ttggcgatgg ggtccgagct ctcaacctcc 420
aggggtatgg gttttccagt caggggtgttt acaaagatct ggataccacc tttgagggcg 480
agaacaaggg gaagg 495

<210> 6869
<211> 526
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-068-Q1-N6-H8

<400> 6869

gggggggggg ggtttttttt ttatatcgag ataaatctca atcaatatat tgattatttc 60
taggaaacac atgtcgggat gagggcacca ttgtcgagta catctcatat gtaatctaaa 120
agaggcacct ccaacgatgg gttgctgcaa ggggggggtt ggtgaaagag aactggttgt 180
atggcagcaa ttgttggtgc tgctgcagga aggtagcgac caatgggtta gccactgcca 240
atggattaag taactgttgt cgctgttgta ggtacgcagc agagtttgac acagccagtt 300
ggttgaatgg aagcaactgt tgtaagtagg cagcaggggt tgccacagct agctgagtca 360
gagctggtac aatttggtgc agcaactgtt gttgtaggta cgtaggtgca ttgccaccgc 420
cgagcgggct agatgaaagt agttgtaggt agacggcagg gttcaccatg gctagttgac 480
tgagcactgg cataaactgt tgcagctggt gttgttgctg ggatgc 526

<210> 6870
<211> 595
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-A1

<400> 6870

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agatctccct tgatccaaac agccccatac gttgccttgg gcaatcgagc taatcaatct 120
ccgtgcaatt ccacctcccg aagacccgaa ctgagtcctt ccaccgaccc aaaccctagc 180
gcgcacccac ctccctcccc ctttcccggc gtgcgggtccg gcgttggaga tgcgggcgct 240
gctcgcggac ggcgggatgg cgctggcgat ggcgccggag gttaacgagt cgtcgggcg 300
tgctgcgttg tgcaggggc tggtatggtg ggcgtcggag tgccacgggg tgttgtacag 360
ccttgcggtg atgctgccgt cgctggcctt cgtgggattc ctagcatggc aggcgcggcg 420
gagcttccgt aggatcagct acggccgctc tcacgtcgtc gtcgtcgcgt actacgcgct 480
cctctgggtc gtcgcgtac tcaacctcct ctggtgcttc ctgcaggcat ggcaatgtat 540
gcctgacagg gcattttctt ggaatgtatt gtcactgttc acaaaatcag gaatg 595

<210> 6871
<211> 612
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-069-Q1-K6-A10

<400> 6871

tcttgttcct ccaacaatca tcagcgccgt ggacgagtga ggtacctctt tgtagaccat 60
ataaatgcga cgncaaagg t aaccttgatg tatactaggg ccttgatgat tgttggnagg 120
gaacaaggcg tggctcatag ggatagatcc cgggcatttc atggaccggt tccagcaggc 180
gtcccagctt cttctattgg gagtggaggg ggggggacaa caactacaac aacttntgct 240
ancaaacctt gctgcctact ctcancaaca ncantttctt ccattcaacc aactanctgc 300
attgaactct gcttcttatt tgcaacaaca acaactacca ttcanccagc tacctgctgc 360
ctacccccag caattttctt cattcaacca actggcatca ttgaactctc ctgcttattt 420

acagcancaa caactactac cattcancca nctanctggt gtgagccctg ctaccttctt 480
gatacaacca canttggtgc cgttctacca ncacccttcn cctaacgctg gcaccctctt 540
acaactgcaa caattncttg cccctcaacc aactttcttt gaccaacca ccatctttct 600
accaaccacc ca 612

<210> 6872
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-A3

<400> 6872

gcgtttctat tgtaccagct ctgactcagc tagctgtggc aaacctgct gcctacttac 60
aacagttgct tccattcaac caactggctg tgtcaaactc tgctgcgtac ctacaacagc 120
gacaacagtt acttaatcca ttggcagtggt ctaaccatt ggctcgtacc ttctgcagc 180
agcaacaaca attgctgcc tacaaccagt tctctttgat gaacctgcc ttgcagcaac 240
ccatcggttg aggtgccatc ttttagatta catatgagat gtactcgaca atgggtgccct 300
cataccgaca tgtgtttcct agaaataatc aatatattga ttgagattta tctcgat 357

<210> 6873
<211> 567
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-A4

<400> 6873

caaccgtcag ccctattaca gcagttacct ttggtgcatt tgttggcaca aaacatcaag 60
gcacaacaac tacaacaact tgtgctagga aaccttgctg cctactctca gcaacagcag 120
tttcttccat tcaaccaact ggctgcattg aactctgctg cttatttgca acaacaacta 180
ccattcagtc agctagctgc tgccatcccc cagcaatttc ttccattcaa ccaactggca 240
gcattgaact ctgctgctta tttaacaacag caacagctac caccattcag ccagctagct 300
gatgtgagcc ctgttgctt cttgacacaa caacagttgt tgccgttcta cctgcacgct 360
gcgccctaacg ctggcaccct cttacaactg caacaattgc tgccattcaa ccaacttgct 420

ttgacaaacc caacagcggt ctaccaacaa cacatcattg gtggtgccct ctttttagatt 480
gattattagt tgtaattcaa taataaagtt ttttggatga tgtatgtggc caaccagaaa 540
taagaagtta catttccaga ttcttta 567

<210> 6874

<211> 609

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-K6-A5

<400> 6874

gcaacatacc atagtgaagt aactagcaa catcttagca ccaatggcag ccaagatttt 60
tgccatcctt gccctccttg ctctttcagc aagcggtgct accgcgacta ttattccaca 120
atgctcacia caatacctct ctccggtgac agccgcgaga tttgaatacc caactataca 180
atcctacagg ctacaagagg ccatcgcagc aagcatctta cggtcgtag cattgaccgt 240
ccaacaacca tatgccctat tgcaacaacc atccttaatg aatctatatc tccaaagaat 300
cgcagcacia caactacaac aacagttgct tccaacaatc aatcaagtag ttgcagcgaa 360
ccttgctgct tacctccagc aacaacaatt tcttccattc aatcaactag ctgggggtgaa 420
ccctgctgct tacttgagc cacaacagct actaccattc aaccaacttg tcaggagccc 480
tgctgecttc ttactgcagc aacagttgct tccattccat ctacaagttg tggcaaacat 540
tgctgctntc ttgcaacaac aacaacaatt gctgccattt taccacagc ttgtngggaa 600
acattaacg 609

<210> 6875

<211> 613

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-K6-A6

<400> 6875

cgcaccttt tccacatgc tcacaggggg ctatagcttc ccttcttccc ccatacctct 60
caccagcggg gtcttcaatg tgtngaaaac ccaattgttc aaccctacag gatccaacag 120

gcaatcgcaa caggcatctt accattatca cccttgttcc tccaacaacc gtcagcccta 180
 tggcagcagt tacctttggt ccatttggtg gcacaaaaca tcagggcaca acaactacaa 240
 caacttgtgc tagcaaacct tgctgcatac tctcagcaac atcagtttct tccattcaac 300
 caactggctg cattgaactc tgctgcttat ttgcaacaac aattaccatt cagccagcta 360
 gttgctgcct acccccagca atttcttcca ttcaaccaac tagcagcatt gaactctgct 420
 gcttatttac agcagcaaca actactacca ttcagccagc tagctgatgt gagccctgct 480
 gccttcttga cacaacaaca gttgttgccg ttctacctgc acgctatgcc taacgctggc 540
 accctcttac aactgcaaca attgctgcca ttcaaccaac ttgctttgac aaactcaaca 600
 gtgttctacc aac 613

<210> 6876

<211> 590

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-K6-A7

<400> 6876

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 caagatatta gccctccttg cgcttcttgc cctttttgtg agcgcaacaa atgcgttcat 120
 tattccacaa tgctcacttg ctcttagtgc cattattcca cagttcctcc caccagttac 180
 ttcaatgggc ttggaacacc tagctgtgca agccaacatg caacaacaag cgcttgccgc 240
 gagcgtctta caacaaccaa ttgcccaatt gcaacaacaa tccttgccac atctaacaat 300
 acaagccatc acaacgcaac agcaacaaca gttcctacca gcaactgagcc acctagccat 360
 ggtgaaccct gccgcctact tgcaagagca gctgcttgca tccaaccac ttgctctggc 420
 gaacgtagtt gcaaaccagc aacaacaaca gctacaacag tttctgcaa cgctcagtca 480
 actagccatg gtgaaccctg ccgcctacgt acaacaacaa caactgcttt catctagccc 540
 gctcgtgtg ggcaatgcac ctacatacct gcaacaacaa ttgttgcaac 590

<210> 6877

<211> 613

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-A9

<400> 6877

ctccgttggg tgtgaaaccc attcgggggg ggggggggatc caacaggcaa tcgcagctgg 60
catcttacct ttatcacccct tgttctctcca acaatcatca gccctattac agcagttacc 120
tttgggtgcat ttattggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgcgggg 180
gggggggggct gcctactctc agcaacaaca gtttcttcca ttcaaccaac tagctgcatt 240
gaactctgct tcttatttgc aacaacaaca actaccattc agccagctat ctgctgccta 300
ccccagcaa tttcttccat tcaaccaact gacagctttg aactctcctg cttattttaca 360
gcagcaacaa ctactaccat tcagccagct agctgggtgtg agccctgcta ctttcttgac 420
acaaccacaa ttgttgccgt tctaccagca cgctgcgcct aacgctggca ccctcttaca 480
actgcaacaa ttgtgccat tcaaccaact tgctttgaca aaccaacag cattctacca 540
acaaccatc attgggtggg cctcttttta gatttcttat gagttatagt tcaataataa 600
agttttttgt ctg 613

<210> 6878

<211> 588

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-B10

<400> 6878

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gaggaggaag aggggctcgc gttcggaag ctcttcagcc ggctcttcgc caagaaggag 120
atgaggatcc tcatggtcgg cctcgacgcc gccggtaaaa ccaccatcct ctacaagctc 180
aagctcggcg agatcgtcac caccatcccc accatcggtt tcaatgttga aactgttgag 240
tacaagaaca ttagcttcac tgtctgggat gtcgggggtc aggacaagat cagacctctt 300
tggaggcatt acttcagaa caccagggt cttatctttg ttgtggacag caatgaccgt 360
gaccgtgttg ttgaagccag agatgagctc cacaggatgc tgaacgagga tgagctacgt 420
gatgctgtgc tgcttgtttt tgccaacaag caagatcttc ccaatgccat gaatgctgct 480

gagattactg acaagcttgg attacactcc ctgcgccagc gacactggta catccagagc 540

acttgtgccca caactggcga gggctctgtat gaaggcctgg actggctg 588

<210> 6879

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-B2

<400> 6879

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aacaacccat cattgggtggg gccctctttt agattgctta tgagttatac ttcaataatg 120

aagtttttta gaaatgtact ttcttatttc tgggaagcca caaacatcat ccaaaaaata 180

agaaagtaca tttct 195

<210> 6880

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-B3

<400> 6880

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tcttttaacc ctcgaggtcc aaacagtagt cagacctggc tttggagcat tattagcctc 120

gaaccttcaa gaaccggcag ctgtattaca tcaggctcct tgggaccatc cagtgggaca 180

tggcataagg gcacacctac tacaagaact agcgctagca aaccttgatg catacgctta 240

caatgatcag tgccgttcat tcaaccaact gactgtatcg atctatgctg cttatttgtg 300

acaactatta ccattaacac aggttgttgt tgaatacccc gagcgttttg ttcca 355

<210> 6881

<211> 280

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-K6-B4

<400> 6881

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 tttccctcct tatgtctcctt gctcttttcta catgtgttgc taacgcgaca attttccctc 120
 aatgctcaca agctcctata gcttcccttc ttccccata ccttccatca attatagctt 180
 cagtatgtga aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca 240
 acataccttt tatcgccctt gttgtttcaa caatcaccag 280

<210> 6882
 <211> 226
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-B6

<400> 6882

agcgtccgca ctaacaacac agaacgccag gggggaccac aaggcaagca aaaagctccc 60
 atacctacct ccttggctct gtacctcatg atgcatggga cgggcgacag attgtccaaa 120
 agagactgcg aagactccta aaggatccca cattccaccg tacctggcat cagcagtgtc 180
 tgaagctgga gaaaacgacc attcatcaac cctacaggca acagac 226

<210> 6883
 <211> 594
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-069-Q1-K6-B7

<400> 6883

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 acaacaacaa caacaacatc accaacaatc acaaggccat gtgcaacaac acgaacagag 120
 ccatgagcaa caccaaggac agagccatga gcaacaacat caacaacaat tccaggggtca 180
 tgacaagcag caacaaccac aacagcctca gcaatatcag caggggcat ggaaaaatca 240
 caacagcaac aatgtcattg ccaggagcag caacagacta caaggggcag ctataactac 300
 tatagcagta gctcaaactt aaaaaattgt catgaattcc taaggcagca gtgcagccct 360
 ttggtaatgc cttttctcca atcacgtttg atacaaccaa gtagctgccg ggtattgcag 420

caacaatgtt gtcgatgatct taggcagatt gagccacaat acattcacca agcaatctac 480
 aacatgggttc aatcccataat ccaggaggag caacaacaac aaccatgtga gttatgtgga 540
 tctcaacaag ctactcaaag tgcggtggca atcttgacag cagcacaata ccta 594

<210> 6884
 <211> 471
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-069-Q1-K6-B8

<400> 6884

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 ctccatagct agccgcgagc gacggtcgac gtccccaaga gtcgaccga atcgctgtac 120
 aagggaactg gtgaccaacc aaggcaggct gtggaactgg gcaggcatgg cgccctagag 180
 cgttgaggct ccattctgct gctgctggag agcagctggc tagctgttag cgttttccct 240
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 cttttctgta gtattggaat gccagagacc tttggccgga caagaggaat ttgcgaaggc 360
 cgtctggctg ggtgtgttgc gtcgtcattg ggggtctagta tggccagttg tgttcgtcgt 420
 tatattgagt ggatccgaat gaatgtgggt tagattggag ctttcctttt c 471

<210> 6885
 <211> 610
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-C10

<400> 6885

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 tggagtacat catttccggc cccgtggtgg cgatggtgtg ggaggggaag gacgtcgtgt 120
 tgactggccg caggatcatt ggggccacca ggccttgagg ggcagcccc ggtaccattc 180
 gtggggacta cgccgtggaa gtcggcagga atgtcatcca tggaagcgac tccgtggaga 240
 acgggaagaa ggagatcgt ctctggttcc ctgaagggtg ggcacagtgg aagagcaacc 300
 ttcattccctg gatctacgag gcttgagcag ttgagcttgg atgccttgcc tgcttccatg 360

gaaaccagag ttttgtttga gtattatctg ttggctctgg ctgaagagtc ataatttagc 420
gctctgtgtg ttacaccaga gttaagtctg cctgaactta tgtggcattt gtttgagttt 480
ctaccttcgt gccctgtttt ctaatgtacc gtgggtgtga accggtcaat gtgatctgaa 540
ataaaacatt gcgtgccaaag tttgtgttac aagtttgatg cactggggaa tgccaggcaa 600
ctaattgtgt 610

<210> 6886
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-C11

<400> 6886

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aaaaaaaaaa aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaaaa acattcaaaa 120
aaaaaaaaaa aaaacaaact tttttaataa aaaaaaaaaa aaaaactcaa ttggggggaga 180
gagaggaaac taatttttac cggcctccca ttcccatacc aactggaaaa aaaaatccca 240
tcccccaact aaaaaaacc ctaacaaaac caaccttaat cccctaaaaa cctatccaaa 300
aaaccaaaaac cgaccgaacc ccaaaaaaat cccaaacaaa aactttccaa aaaaaaacc 360
cctcttaaata cccaaaa 377

<210> 6887
<211> 240
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-069-Q1-K6-C12

<400> 6887

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ctacctagct cgctagttaa ctcatattatc ttcatgaggt aacgtantgt caccatggg 180
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<210> 6888
 <211> 230
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-069-Q1-K6-C2

<400> 6888

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 ctcgtttttt ttcttggtt gagcgttttt gggcagcgct ggcttggttc ctagtatggt 180
 gggaattggc tgcacctttt gcttcgaata aaaatgcctg ctcgttcacc 230

<210> 6889
 <211> 608
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-069-Q1-K6-C4

<400> 6889

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 ggtgggcctg agattccctt ccaccccggt agggaggaca agcctcaacc ccacctgag 180
 ggccgccttc ctgacgccac taagggttct gaccacctga ggcaagtttt tggcaagcag 240
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 cacaaagagc ggtctggttt cgagggggcc tggactacaa accctttggt ctttgacaac 360
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 aaagccctgc tgagcgacct tgttttccgc cctcttgctg agaaatatgc tgcggatgag 480
 aaggctttct ttgatgacta caaagaggcc cacctcaagc tctccgaact ggggtttgct 540
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<210> 6890
 <211> 432

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-C7

<400> 6890

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aataatcaat atattgattg acattttactc tcgaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaatta aaaaaaaaaa 180
aaaggggggg cgcgttttaa agaaccacaag ctaacgtccc cgggcatgca acgtaaaagc 240
ttttttatag ggccaccaa attaaattaa cgggccggcg tttaaaaacg tcggaacggg 300
aaaaaccctg gggtaaccaa actaaatcgc cttgaaaaaa atcccccttt cccagtgagg 360
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aaaggaacc cc 432

<210> 6891
<211> 615
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-069-Q1-K6-C8

<400> 6891

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gccgaagtga aagagatgga ggagcgcctg tttccgggtca ccaatcgcag gctggatcac 180
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cccgtaagc caaagcaggt gctcaactgg ttttataaca accgtaacaa gacttctgcc 300
aaggtagcag ccagggaagc acatgctcca tgggagtttt gggccaacca tcagcaagct 360
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ggatcttctt caggtgattt atagatgtta cctgtgacta tgatcactga tattgcttct 480
ttgtaatttg tcgctcatgt ttacatgctt cctcggtact gccaggcact tctattctat 540
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gaataattat atcga

615

<210> 6892
<211> 612
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-069-Q1-K6-C9

<400> 6892

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tatgtngaaa acccaattct tcaaccctac aggatccaac aggcaatcgc agcaggcatc 180
gggcctttat cacccttggt cctccaacaa cgcgcagccc tattacagca gttacctttg 240
gtgcatttgt tggcacaaaa catcaaggca caacaactac aacaacttgt gctaggaaac 300
cttgctgcct actctcagca acagcagttt cttccattca accaactggc tgcattgaac 360
tctgctgctt atttgcaaca acaactacca ttcagtcagc tagctgctgc ctacccccag 420
caatttcttc cattcaacca actggcagca ttgaactctg ctgcttattt acaacagcaa 480
cagctaccac cattcagcca gctagctgat gtgagccctg ttgccttctt gacacaacaa 540
cagttgttgc cgttctacct gcacgctgcg cctaacgctg gcaccctctt acaactgcaa 600
caattgctgc ca 612

<210> 6893
<211> 601
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-D1

<400> 6893

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tggacgcgtt ccggaacag ctggacgtgc tcatgggcgc caaccgcaac ggcgacgtcg 180
aggaggtgag ccgcaactac tacgaccgcg acgtctgccg cctcttcctc gccggtctct 240
gcccacacga cctctttcag ctcacgaaaa tggatctcgg tccttgttct aagattcatt 300

ctcttcaact gcggaagat tatgaagaag cgaaagcaaa gggaacagaa aattttgata 360
 gagaactcga ggatatgata gaaaggctca ttgtggagtg tgacaggaaa attcagaggg 420
 ccctaaaacg gcttgcagat gatgatgcca atgctgctat tgcgatatcg gtctctgagg 480
 ttactctgac ggatgacata ctgcagctgt caaaacagat aaaggagaaa atggcagaag 540
 ttgatgcctt tgattttgaa gggagaactg acgacaaaat aaaggcccag gaagtagtgg 600
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<210> 6894
 <211> 485
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-069-Q1-K6-D10

<400> 6894

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 cccccagcaa tttcttccat tcaaccaact ggcagcattg aactctcctg cttattttaca 120
 gcagcaacaa ctactaccat tcagccagct agctgggtgtg agccctgcta ccttcttgat 180
 acaaccacag ttgttgccgt tctaccagca cgctgcgcct aacgctggca ccctcttaca 240
 actgcaacaa ttgctgccat tcaaccaact tgctttgaca aaccagcag cgttctacca 300
 acaaccctac attgggtgtg ccctctttta gatttcttat gagttatagt tcaataataa 360
 agttttttgt ctgatgtttg tggcttccca gaaataagaa agtacatttc tagattctta 420
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<210> 6895
 <211> 603
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 6895

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cctatagctt cccttcttcc cccgtacctc tcaccagcgg tgtcttcggt atgtgaaaac 180
gcgagttctt caaccctata ggatccaaca ggcaatcgca gctggcatct tacctttatc 240
acccttggtc, ctccaacaat catcagccct attacagcag ttacctttgg tgcattttatt 300
ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta 360
ctctcagcaa caacagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta 420
tttgcaacaa caacaactac cattcagcca gctatctgct gcctaccccc agcaatttct 480
tcattcaac caactgacag ctttgaactc tctgcttat ttacagcagc aacaactact 540
accattcagc cagctagctg gtgtgagccc tgctaccttc ttgacacaac cacaattggt 600
gcc 603

<210> 6896

<211> 605

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-K6-D2

<400> 6896

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gngaaactct atgaatatca agagaaccat aaaaggatat atcaatgctg gttttgctgg 120
aattatgctt gaggatcagg tggcacctaa agcatgtgga catactgaag gaaggaaagt 180
catatcaagg gaggaagctg tcatgcacat aaaagctgct gtagatgcta ggaaagagag 240
tggtctgac attgttattg tagcaaggac agattctcgc caagctattt ctcatgatga 300
agcattatgg aggggtgaaag ctttgctga tgctggagca gatgttctat ttattgatgc 360
ccttgcttca gtagaagaga tgaaagcatt ttgtgcggtt gcaccagaag ttccaaagat 420
ggcaaacatg ttagaagggtg gtggtaaaac tcccatattg agccctgctg aacttgagga 480
aattggtttc aggctttag tatatccttt atccttagtt ggggtatcaa tgcgtgcaat 540
gcaggatgct ctagttgcga taaaagacgg cgggtgtacct ccacctagcg tcctgccatc 600
ttttc 605

<210> 6897
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-069-Q1-K6-D3

 <400> 6897

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ggcaagtccg ggaagccgct cactacaag ggctccacct tccaccgct catccccgag  120
ttcatgtgcc agggcggcga cttcaccgc ggcaacggca ccggcggcga gtccatctac  180
ggcgagaagt tccccgacga gaagtctgtg cgcaagcaca ccgcccccg tgtgctctcc  240
atggncaacg ccgggcccac ca                                     262
  
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<210> 6898
 <211> 602
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-069-Q1-K6-D5

 <400> 6898

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gccgcgggat ttcaataccc aactatacaa tcctacatgg tacaagaggc catccaagca  180
agcatcttac ggtcattagc attaacctc caacaaccat atgctctatt gcaacagcca  240
tccttagtgc atctgtatct ccaaagaatc gcggcacaac aactacaaca acagttgcta  300
ccaacaatca atcaagtagt tgcagcgaac cttgctgctt acctccagca acaacagttt  360
cttccattca atcaactagc tggggtgaa cctgctatct acttgaggc acaacagcta  420
ctaccattta accaacttgt cgggagccct tatgccttct tactgcaaca acagcttctg  480
ccattccatc tgcaagctgt ggcaaacatt gttgctttct tgagacaaca acatttgttg  540
ccattttacc cacaagttgt gggaaacatt aatgccttct tgcaacagca acaattgcta  600
cc                                                         602
  
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<210> 6899
 <211> 416
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-069-Q1-K6-D7

<400> 6899

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 ctcccccat accttccgtg ggggggtggct tcnacataaa aaaaacccac ccctccaacc 180
 atacancctt caacaaccaa tccaacaac caacatacct ttaccnccct tnttncatca 240
 acactcacca accctatctt cctacantc attcnnacaa accatcaaca cccaacaact 300
 naaccaactc nncctacctn caaccaacca antacctcca acaaacctaa ctccctactc 360
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<210> 6900
 <211> 609
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-069-Q1-K6-D8

<400> 6900

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 ttctgctgaa ccctcatgac ccaagcgaag tccactcctg ggaggaggga gatgggccgg 180
 gcgcgatcgc cggaaccgct cgattttctt atatggactg tcgaggatgt tggattatgg 240
 ctggaagaaa taaatcttgg tggctacaaa caagtatttc aagaaaatag tgtcaatgga 300
 gaatatctag aaagcttgct catgtttact actgagcaga ttctgcgctt tattaggcgg 360
 tgccatatga aatggggaga ctttatcaca ctgtgcaaag agttgaggcg cattaaagtg 420
 gcgtgcctta aaggggagca agaagcccg caggccatggt gggcgccggc atgcctctcc 480
 gtagttttcg tgagggcagc caagcagaac aggaagtccc gtgttgcttc gttgaagctg 540
 gaaccataat gcttgtaag cacttcgaac cgtcgtgccc tagcctaaag tggatggaa 600

gctgttttg

609

<210> 6901

<211> 591

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-D9

<400> 6901

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ctgaagagat ctctctatg gttcttatca agatgcgtga gattgctgaa gcttaccttg 180
ggggcacgat caagaatgct gtgggtcacag tccctgccta cttcaatgac tcacagaggc 240
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caacagctgc agctatcgcc tatgggtcttg acaagaaggc taccagtgtc ggtgagaaga 360
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aaggaatctt tgaggtcaag gccacagctg gtgacacca tcttggtggt gaggactttg 480
acaacaggat ggtcaaccac ttcgtccagg agttcaagag gaagaacaag aaggatatca 540
ctggcaaccc cagggctctc cggaggctga ggaccgcttg tgagagggcg a 591

<210> 6902

<211> 602

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-K6-E1

<400> 6902

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ctcgcaagct cctatagctt cccttcttcc ccgtacctc tcaccagcgg tgtcttcggt 180
atgtgaaaac ccaattcttc aaccctacag gatccaacag gcaatcgag ctggcatctt 240
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gcattttattg gcacaaaaca tcaggggcaca acaactacaa caacttgtgc tagcaaacct 360
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 gcaatttctt ccattcaacc aactagcagc attgaactct cctgcttatt tacagcagca 540
 acaactacta ccattcagcc agctagctgg tgtgagccct gctaccttct tgacacaacc 600
 ac 602

<210> 6903

<211> 584

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-E10

<400> 6903

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 caccgccatc ctgggccagt gcgtcgagtt tctgaggcat cagtgcagcc cgacggcgac 480
 gccctactgc tcgctcagt gccagtcgtt gcggcagcag tgttgccagc agctcaggca 540
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<210> 6904

<211> 568

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-E11

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acettccatc aatgaccggt ggaggggggtg aaaaccagc ctttcaacc tacagggtcc 180
aacaagcaat cgcaacaagc aacttacctt tatcaccctt gttctttcaa caatcgccag 240
ccctatcttt ggtgcagtca ttggtacaaa ccatcagggc acaacagctg caacaactcg 300
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aactactacc attcagccag ctagctactg cctactctca gcagcaacaa tttcttccat 480
ttaaccaatt ggccgcactg aacctctctg cttatttcca gcagcaaata ctactaccat 540
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<210> 6905

<211> 616

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-K6-E12

<400> 6905

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tgttttcgtc gctgcccgtt cagcctaacc atccccgccc gtacagcgcc ccggcgaccg 180
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cgcaggttca cctcggcgca cactaagaag aagcgaaggg tgagtaagaa tatattcttg 540
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caggacctaa tgcaaa 616

<210> 6906

<211> 621

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-069-Q1-K6-E3
 <400> 6906

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acaagcttga cactgtcttt tctgccccat tctgcaacca cgggagtagt gttgagtgcc  180
gaattgacat gaagaatctg attggcggaag catcttgtag aatctgtcag gaaaacttca  240
gcacaactgt taatgcactc actgagccta ttgatata tagtgaatgg attgatgagt  300
gtgagcgtgt caacactggt gaaggcgacg atgatgcgtg agcttgcccc atgcgatgaa  360
actgttacct acaatcgtaa tgtaatgtgc tggattctc gaatgccata gcccatagtc  420
agccatggct tggaataacg tagtggctga ctgatatgcc agtaggcacc tgtctagtag  480
ttacagaact acaaaaagtt tgtactatac atatatggac aaccttataa gtggctatgt  540
gtgtacctat cctaacgctt atcccagatg gtgtatcagc gtttttctgt gagattgttt  600
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<210> 6907
 <211> 484
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-069-Q1-K6-E4
 <400> 6907

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ctctcagcaa caacaacttc ttccatttaa ccaattggcc gcactgaacc ccgctgctta  180
tttgagcagc caaatactac tgccatttag cgagctagct gcagcaagtc gtgcttcctt  240
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cttacaacta caacaattgt tgccctttgt ccaacttgct ttgacaaacc cagcagcctc  360
ctaccaacaa cacatcattg gtgggtgcct ctttttagatt gattattagt tgtaattcaa  420
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ttct

484

<210> 6908
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 6908

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ccgtgagctc ttcaaagagg actgaaactt ctattttgca agccagatat cagagcatat 180
tgtagctgg aggaggtgag ggcgatttag atatttagca aatcacccct gtggttcaat 240
gcttttgtat aaccgcagac atacatcaaa taaagttcac ttgtacttgc tgcttgcaagt 300
ggctctattt ttctgtcaat aaagtttttt atgtctctga cttatgcaat gttgttcagt 360
tgc 363

<210> 6909
<211> 620
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-E6

<400> 6909

attttcagca ttcaaaacac accaagcgag ggcgactagc aacgaccta caccaatggc 60
taccaagata ttagccctcc ttgcgcttct tgccctttta gtgagcgcaa caaatgcgtt 120
cattattcca cagtgtcac ttgtctctag tgccattatt ccacagttcc tcccaccagt 180
tacttcaatg ggcttcgaac atccagccgt gcaagcctac aggctacaac tagcgcttgc 240
ggcgagcgcc ttacaacaac caattgccca attgcaacaa caatccttgg cacatctaac 300
cctacaaacc attgcaacgc aacaacaaca acaacaacag tttctgccat cactgagcca 360
cctagccgtg gtgaaccctg tcacctactt gcaacagcag ctgcttgcat ccaaccact 420
tgctctggcg aacgtagctg cataccagca acaacaacag ctgcaacagt ttatgccagt 480

gctcagtcaa ctagccatgg tgaaccctgc cgtctaccta caactacttt catctagccc 540
gctcgcggtg ggcaatgcac ctacgtacct acaacaacag ttgctgcaac aaattgtacc 600
agctctgact cagctagctg 620

<210> 6910
<211> 638
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-069-Q1-K6-E7

<400> 6910

cgggtccgnat tccgggtgaa tacaactagca acatcttacc caagggagcc aagattgggg 60
ccctccttgc cctccttgc ttttcagcaa gcgctgctac ctgcactttt attccacaat 120
gctcacaaca atacctctct cgggtgacag ccgcgggatt tcaatacca actatacaat 180
cctacatggt acaagaggcc atccaagcaa gcatcttacg gtcattagca ttaaccctcc 240
aacaaccata tgctctattg caacagccat ccttagtgca tctgtatctc caaagaatcg 300
cggcacaaca actacaacaa cagttgctac caacaatcaa tcaagtagtt gcagcgaacc 360
ttgctgctta cctccagcaa caacagtttc ttccattcaa tcaactagct ggggtgaacc 420
ctgctatcta cttgcaggca caacagctac taccatttaa ccaacttgtc gggagccctt 480
atgccttctt actgcaacaa cagcttctgc cattccatct gcaagctgtg gcaaacattg 540
ttgctttctt gagacaacaa catttggtgc cattttaccc acaagttgtg ggaaacatta 600
atgccttctt gcaacagcaa caattgctac cattctac 638

<210> 6911
<211> 615
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-E8

<400> 6911

attcaaaaac acaccaagcg aacgcactga gcaacgagcc taacaacaat ggctaccaag 60
atattagccc tccttgcgct tcttgccctt tttgtgagcg caacaaatgc gttcattatt 120
ccacaatgct cacttgctcc tagtgccatt attccacagt tcctcccacc agttacttca 180

atgggggttcg aacacctagc tgtgcaagcc aacatgcaac aacaagcgct tgcggcgagc 240
gtcttacaac aaccaattgc ccaattgcaa caacaatcct tgccacatct aacaatacaa 300
gccatcaciaa cgcaacagca acaacagttc ctaccagcac tgagccacct agccatggtg 360
aaccctgccg cctacttgca agagcagctg cttgcatcca acccacttgc tctggcgaa 420
gtagtgtgcaa accagcaaca acaacagcta caacagtttc tgccaacgct cagtcaacta 480
gccatggtga accctgccgc ctacgtacaa caacaacaac tgctttcatc tagcccgctc 540
gctgtgggca atgcacctac atacctgcaa caacaattgt tgcaacagat tgtaccagct 600
ctgactcaac tagct 615

<210> 6912
<211> 624
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-069-Q1-K6-E9
<400> 6912

ccaacaagca acatagnaaa gtggnaatcc agtagcaaca acanagcaac aatggcgacc 60
aagatatattt cctccttat gtccttgct ctttctgcat gtgttgctaa cgcgacaatt 120
ttcctcaat gtcacaagc tcctatagct tcccttcttc cccatacct tccatcaatg 180
atagcttcag tatgtgaaaa ccagctctt cagccctata ggctccaaca agcaatcgca 240
gcaagcaaca tacctttatc acccttggtg tttcaacaat cgccagccct atctttggtg 300
cagtcattgg taaaaccat cagggcacag cagctgcagc aactcgtgct acctgtgatc 360
aaccaagtag ctctggcaaa ctttctccc tactctcagc aacaacaatt tcttccattc 420
aaccaactgt ctacactgaa cctgctgct tatttgagc aacaactatt accattcagc 480
cagctagcta ctgcctactc tcagcaacaa caacttcttc catttaacca attggccgca 540
ctgaaccccg ctgcttattt gcagcagcaa atactactac catttagcca gctagctgca 600
gcaaaccgtg cttccttctt gaca 624

<210> 6913
<211> 593
<212> DNA

<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-069-Q1-K6-F10

<400> 6913

naagnaagtg gnaatccagt agcaacagat agcggcagtg gcgaccaaga tttttccctc 60
cttatgctcc ttgctctttc tgcattgtgt gctaacgcga caattttccc tcaatgctca 120
caagctccta tagcttccct tttttcccca taccttccat caatgatagc ttcagtatgg 180
ggagaaaacc agctcttcag ccttatagga tccaacaagc aatcgagca agcaacatac 240
ctttatcacc cttgttgttt caacaatgc cagccctatc tttggtgcag tcattggtac 300
aaaccatcag ggcacagcag ctgcagcaac tcgtgctacc tgtgatcaac caagtagctc 360
tggaacacct ttctccctac tctcagcaac aacaatttct tccattcaac caactgtcta 420
cactgaacct tgctgcttat ttgcagcaac aactattacc attcagccag ctagctactg 480
cctactctca gcaacaacaa cttcttccat ttaaccaatt ggccgactg aaccccgctg 540
cttatttgca gcagcaaata ctactacat ttagccagct agctgcagca aac 593

<210> 6914
<211> 618
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-069-Q1-K6-F11

<400> 6914

gtaaaccaac aagcaacata gnaaagtggg aatgcatgga gcaacaatag aagcaacaat 60
ggcgaccaag atattttccc tccttatgct ccttgctctt tctacatgtg ttgctaacgc 120
gacaattttc cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc 180
atcaaggggg gcgtcaatat gtgaaaacc agctcttcaa ccatatagga ttcaacaagc 240
aatcgagca agcaacatac ctttatcgcc cttgttgttt caacaatgc cagccctatc 300
tttgggtgcag tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc 360
tctgatcaac caagtagctc tggaacacct ttctccctac tctcagcaac aacaatttct 420
tccattcaac caactgtcta cactgaacct tgctgcttat ttgcagcaac aactattacc 480

atttagccag ctagctactg cctactctca gcaacaacaa cttcttccat ttaaccaatt 540
 ggccgcactg aaccccgtg cttatttgca gcagcaaata ctactaccat ttagccagct 600
 agctgcagca aaccgtgc 618

<210> 6915
 <211> 615
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-F12

<400> 6915

cagcagcttc tgcttgctct ggggggaatg gtatagggga gcgaaagaga ctattagaga 60
 ggctagctag gtggtcctcg aacgaagatg ttggcggtgt tcagcgggca ggtggtggag 120
 gtgccggcgg agctggtggc ggccggcatc cggacgccgt cgccaagac gaaggcgtgg 180
 gggggggggg ggcgcttcct ggccgectcc gagccggccg tgcccggtca gtcggcgac 240
 cacggccacc tcgcctactc ccacaccaac caggcgctcc tccgccccag gtcgttcgcg 300
 gcgaaagacg aggtgttctg cctgttcgag ggggtgctgg acaacctggg tcgtctgagc 360
 cagcagcacg ggctgtcaag caaggcgcc aacgaggtgc tcctcgatc cgaggcctac 420
 aagacgtgc gcgaccgcgc gccctaccgc gccagcttca tgctcgcca gtcaccggc 480
 tcctacgcct tcgtcctctt cgacaagtcc accaactccc tgctcgtcgc atccaacccc 540
 gagggcaggg tgccgctctt ctgggggatc accgcccagc gctgctgcgc cttcttcgac 600
 gacatcgaca tgctc 615

<210> 6916
 <211> 127
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-F2

<400> 6916

ggcgcccttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttt 127

<210> 6917
 <211> 592
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-069-Q1-K6-F3

 <400> 6917

ccaactagca acatagnaaa gcacaatagt gtaccaacaa tggcagccaa aatattttgc 60
 ttccttatgc tccttgggtct ttctgcaagt gctgctaccg caaccatttt cccacaatgc 120
 tcacaagctc ctatagcttc ctttcttccc ccatacctct caccagcggg gtcttcagta 180
 tgtgaaaacc caattcttca accctacagg atccaacagg caatcgcagc aggcattctta 240
 cctttatcac ccttggttct ccaacaaccg tcagccctat tacagcagtt acctttgggtg 300
 catttggttg cacaaaacat caaggcacia caactacaac aacttggtgct aggaaacctt 360
 gctgcctact ctacgaaca gcagtttctt ccattcaacc aactgggtgc attgaactct 420
 gctgcttatt tgcaacaaca actaccattc agtcagctag ctgctgccta cccccagcaa 480
 tttcttccat tcaaccaact ggcagcattg aactctgctg cttatttaca acagcaacag 540
 ctaccaccat tcagccagct agctgatgtg agccctgttg cttcttgac ac 592

<210> 6918
 <211> 598
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-069-Q1-K6-F4

 <400> 6918

ctccgaacga actagcaaca tacatagtgg aatacactag caacattctta gcaccaatgg 60
 cagccaagat ttttgccatc cttgccctcc ttgctctttc agcaagcgtt gctaccgcga 120
 ctattattcc acaatgctca caacaatacc tctctccggg gacagccgcg agatttgaat 180
 acccaactat acaatcctac aggctacaag aggccatcgc agcaagcatc ttacgggtcgt 240
 tagcattgac cgtccaacaa ccatatgccc tattgcaaca accatcctta atgaatctat 300
 atctccaaag aatcgcagca caacaactac aacaacagtt gcttccaaca atcaatcaag 360
 tagttgcagc gaaccttgct gcttacctcc agcaacaaca atttcttcca ttcaatcaac 420

tagctgggggt gaaccctgct gcttacttgc aggcacaaca gctactacca ttcaaccaac 480
 ttgtcaggag ccctgctgcc ttcttactgc agcaacagtt gcttccattc catctacaag 540
 ttgtggcaaa cattgctgct ttcttgcaac aacaacaaca attgctgcca ttttacca 598

<210> 6919
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-F5

<400> 6919

caatcgccag ccctatcttt ggtgcagggg ttggtacaaa ccatcaaggc acagcagctg 60
 cagcaactcg tgctacctgt gatcaaccaa gtagctctgg caaacctttc tccctactat 120
 ctgcaacaat tgctgccatt caaccaactt gctttgacaa acccagcagc gttctacaa 180
 caaccatca ttggtggtgc cctcttttag atttcttatg agttatagtt caataataaa 240
 gttttttgtc tgatgtttgt ggcttcccag aaataagaaa gtacatttct agattctt 298

<210> 6920
 <211> 591
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-069-Q1-K6-F7

<400> 6920

natgnaaaca gcaagcaaca taggaagtga gaatccatta gcaacaatag agcaacaatg 60
 ggcaccaagn aattttccct ccttatgctc cttgctcttt ctacatgtgt tgctaacgcg 120
 acaattttcc ctcaatgctc acaagctcct atagcttccc ttcttcccc ataccttcca 180
 tcaattatag cttcagtatg tgaaaacca gctcttcaac catataggct tcaacaagca 240
 atgcgacga gcaacatacc tttatcgccc ttgttgtttc aacaatcacc agccctatct 300
 ttggtgcagt cattggtaca aaccatcagg gcacaacagc tgcagcaact cgtgctacct 360
 gtgatcaacc aagtagctct ggcaaacctt tctccctact ctcagcaaca acaatttctt 420
 ccattcaacc aactgtctac actgaaccct gctgcttatt tgcagcaaca actattacca 480

tttagccagc tagctactgc ctactctcag caacaacaac ttcttccatt taaccaattg 540
gccgcactga accccgctgc ttatttgcag cagcaaatac tactgccatt t 591

<210> 6921

<211> 618

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-F8

<400> 6921

ctccgacgga cgccaccgca acgccgcgga accccatcct cgggagcctc tcctccgacg 60
gtcgatggcc cggctccctg acgccatcct cgcaacgcca accccagcct cgagaccgctc 120
atctccgacg ccatcccca gtgcctccgc cgctgctcca catcctcttc cctctacaa 180
ggggattctg atatcatcaa gactacacca ggtgagcagt aaaagagtgg tggcagtaca 240
tcctctctag agttgttact cagttttgaa aaaggatgat ttggaacaat gtgtatgaga 300
aaggcttatt tgatgtgatg catgatcaca aagataatcc aaaattcaaa ggtcaaaatg 360
gttggaatcg tgatggatgg aatagtatca ctacgaagtt caatggaaag ttcctcttag 420
ctcatttctc taaacaacaa ccacaagaga aggagagaga gcttaaagga tactacaagg 480
caataaggga ttcaagaaaa aaaaagcggg gctgggtgga atgacactct atgcatggta 540
ctggccaaac cagaagtttg gccatggctg attcgtgctc acccaaaagt tcaaagtttc 600
gcaacaagcc attccttc 618

<210> 6922

<211> 611

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-G10

<400> 6922

ccggtcgacc cagcgtccgt ttttcagcat tcaaaaacac accgagggcg gagggggtag 60
caacgaccta acaccaatgg ctaccaagat attagccctc cttgcgcttc ttgccctttt 120
agtgagcgca acaaatgcgt tcattattcc acagtgtcct cttgctccta gtgccattat 180
tccacagttc ctcccaccag tggctggaat gggcttcgaa catccagccg tgcaagccta 240

caggctacaa ctagcgcttg cggcgagcgc cttacaacaa ccaattgccc aattgcaaca 300
acaatccttg gcacatctaa ccctacaaac cattgcaacg caacaacaac aacaacaaca 360
gtttctgcca tcactgagcc acctagccgt ggtgaaccct gtcacctact tgcaacagca 420
gctgcttgca tccaacccac ttgctctggc gaacgtagct gcataccagc aacaacaaca 480
gctgcaacag tttatgccag tgctcagtc actagccatg gtgaaccctg ccgtctacct 540
acaactactt tcatctagcc cgctcgcggt gggcaatgca cctacgtacc tacaacaaca 600
gttgctgcaa c 611

<210> 6923

<211> 608

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-K6-G11

<400> 6923

gtgttgattt taacaaaaca gtagggcatt ggcacgagga cagtggactg gttgtttccc 60
tgtcaagtgg cacattgtga aggatgttcc gaacagtttg ctgaagcaca tcattcttng 120
agaacaatng aaaacaagcc agtgacaaac agcagagata cacatgaggt gaagcttgag 180
caggggcttc aagtgcttaa ggttttcaag gatcatgtgt gcaagacatc catactggat 240
gactttggct tttacgataa tcgtgagaag atgatgcaat ataggaaagc aaaacagcag 300
cagtcactga aaaaggtcat cgatgtgaag ctgcctaacg ccaccgacgc agatacaagt 360
cttgtaggaa ctgtatcaac ggaactcacc aatgttgagg ctgatgtctt gaacaaagag 420
ctttcattag acaaagcagt agagaaaaac gaggagaaag gaaatgatgt cgccccacag 480
gacctgaaat catcagctga gaagtcggca agcccaaagt gctgttaaatt tttttttttg 540
gttagctcgg ccattgacag tggatatgggg cggaacctg aggctggggg ttgtttgagg 600
aaatcctg 608

<210> 6924

<211> 615

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-K6-G2

<400> 6924

agcgtccgca actagcaaca tagnaagca caatagtgt ccaacaatgg cagccaaaat 60
ttttgctcc ttatgtcct tgggtcttct gcaagtgtg ctacggcgac cattttcccg 120
caatgtcgc aagctcctat agcttccctt cttccccgt acctctcacc agcgggtgtct 180
tcggtatgtg aaaacccaat ttttcaacc tacaggatcc aacaggcaat cacagctggc 240
atcttacctt tatcaccctt gttcctccaa caatcatcag ccctattaca tcagttacct 300
ttggtgcatt tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca 360
aaccttgtg cctactctca gcaacagcag tttcttccat tcaaccaact agctgcattg 420
aactctgctt cttatttgca acaacaacaa ctaccattca gccagctacc tgctgcctac 480
ccccagcaat ttcttccatt caaccaactg gcagcattga actctcctgc ttatttacag 540
cagcaacaac tactaccatt cagccagcta gctgggtgtga gccctgctac cttcttgata 600
caaccacagt tggtg 615

<210> 6925

<211> 610

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-K6-G3

<400> 6925

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cctccttatg ctcttgctc tttctacatg tgttgctaac gcgacaattt tccctcaatg 120
ctcacaagct cctatagctt cccttcttcc ccctacatt ccatcaatta tagcttcagt 180
atgtgaaaac ccagctcttc aaccatatag gtttcaacaa gcaatcgag caagcaacat 240
acctttatcg cccttggtgt ttcaacaatc accagcccta tctttggtgc agtcattggt 300
acaaaccatc agggcacaac agctgcagca actcgtgcta cctgtgatca accaagtagc 360
tctggcaaac ctttctccct actctcagca acaacaattt cttccattca accaactgtc 420
tacactgaac cctgctgctt atttgagca acaactatta ccatttagcc agctagctac 480
tgctactct cagcaacaac aacttcttcc atttaaccaa ttggccgcac tgaaccccg 540

tgcttatttg cagcagcaaa tactactgcc atttagcgag ctagctgcag caagtcgtgc 600
 ttccttcttg 610

<210> 6926
 <211> 609
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-069-Q1-K6-G5

<400> 6926

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 atggtgatcc cactcagtca gtcggccata tcgtttctgc ttgacgctgt atggggaagg 120
 aggaaaggca accgcgacga caggaggaga ccattccaag aggaagatta ccctgaggac 180
 gccgctggct ttgcggcagg tggtcgaggc aatggatacc gcagccgcag cagcagcagc 240
 agcaactatt atgaggggag aaggaggacg agcaactacc agtcaagtgt ttctaacaat 300
 tttgctgggtg ctgcctcaac tgggtgttga gctgacgata acaccaagag cagcagcagt 360
 ggatatggag gatgggatga gcttctggac aacgacactg ctgctcagga gacaaagagg 420
 aggagctcat tctcagctgg caccactgat cgaagcaca aatcgagcc ttcagcgact 480
 ggggaggaag atgcagatta tactgccact ccttcaacaa gaacgagaat gagacgacgg 540
 cggacgccag gaacgatggg gttgggcagt accatgtaca agcaggcacc actcgtgatg 600
 cgcttgttg 609

<210> 6927
 <211> 610
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-069-Q1-K6-G6

<400> 6927

gttctanaag ctgctcaggc cctacaggag aggagagaac tgtagaaatt aatgataacc 60
 tcctctcagg atttgaatt gcttgaaca gccacaacag aacatattgt aagctctgtt 120
 gatgagacta gtccagaacg ctctcatgat ggcattggccg gctatcatcc aggagctgtc 180

aatccttttg agcaacttgg actgttcata aaggtagacg atgaggaaga cgacgagcag 240
 tgttccctgc attaaagaaa gaagagaaaag gagaaatcag ctgatggtgc tgtgtttttc 300
 catgccctgt cacgggctag gggctggtgc caacctattg atccaaagtg atcacctgtt 360
 gcgggccatc atgtgtggca atggttctaa actgggggtgg tgagagccgt ccattttgtt 420
 aaaaatatgc atgggaagga tgaagatcat cttgcatagt catttgcttc caggaggcgc 480
 acaggaggtg gagtaaaaac gaacgtatit atggtgccta gaggacggtt ttttcagcca 540
 ctgccaaaac ggcttgaatg acgccaccga agtagtggag ttcaaattggc tcattgtttg 600
 ccgcaacctc 610

<210> 6928

<211> 543

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-K6-G7

<400> 6928

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 ccgtggaggc ggccggcggcg gcgggtacgg tgggtggccgt ggaggcggcg gctacggcgg 120
 tggcgggcg cgtgatggcg gcggcggtta cggcggtggc ggccggctacg gtggtggcgg 180
 cggcggttac ggtggtggtg gcggcggtta cggcggtggc aaccgtggcg gcggctacgg 240
 caactccgac gggaactgga ggaactgagc ggtggggccc gcgcggccaa gttatcctgt 300
 tcgctaccgt gttgtttacc ctagtccaga gtgtttatct tcgttcgtct cgtgtttgtt 360
 gttgcccata tgtgtttttg attgaaggct gctctgtgtc agttgttagt gctgtgttca 420
 tcctcggctc cagcagaccc atgcatcaac cagcatggac tgcggatcga tgggtgctgt 480
 taccctcgctc aggctttatt ctaagttaaa tcctaaggaa aaaatggtgc ttcttggtgc 540
 tgc 543

<210> 6929

<211> 605

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-069-Q1-K6-G8

<400> 6929

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agaggctcgt acgaagcaga ccgcccgcaa gtccaccgga ggcaaggccc cgcgcaagca 120
gctcgccacc aaggcggcga ggaagtctgc gccgacgacc ggcggcgtga agaagcccca 180
caggtacagg cccgggacgg tggctctgcg cgagatccgc aagtaccaga agagcacgga 240
gctgctgata cggaagttgc ccttccagcg cctgggtccgt gagatcgctc aggacttcaa 300
gacggatctg cggttccaga gccacgccgt cctggccctc caggaagccg ccgaggccta 360
cctcgtcggc ctgttcgagg acaccaacct ctgcccctc cagccaagc gcgtcaccat 420
catgccccaa gacatccagc tcgcccgcgc catccgcggc gagcgcgcggt aggcgtatct 480
cgcgcccggc cccantggcg gcggagggat ggaggagggc aatttgtaac cttatgctgt 540
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tgtgc 605

<210> 6930

<211> 104

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-K6-G9

<400> 6930

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cagtgtcac ttctctctng tgccattatt ccacagttcc tccc 104

<210> 6931

<211> 583

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-H1

<400> 6931

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ctgccgccgg cgccgccatc cccacatggc gagccagggg agccctcggc ctctgcttcc 120
gatccgaagg agaagaagga ctactcgacg gcgatactag agaggaaaaa gtcaccgggc 180
cggcttgtcg tcgacgaggc caccaacgac gataactccg tcgtcgact gcaccctgac 240
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aaagacactg tttgcattgt ccttgcggat gaaacctgtg aggagccaaa ggttcggatg 360
aacaaggttg tccgccagaa cctgaggggtg aggcttgggtg atgtggtttc tgtccaccag 420
tgccaggatg tgaaatatgg gaagcgtgtg cacattcttc caattgatga tacagttgaa 480
ggcattacag ggaacctgtt tgatgccttc ttgaaaccat acttcctaga agcatacagg 540
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<210> 6932
<211> 600
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-069-Q1-K6-H10

<400> 6932

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caatggctac caagatatta gccctccttg cgcttcttgc ccttttagtg agcgcaacaa 120
atgcgttcat tattccacag tgctcacttg ctccatgcc agtttccaca ttctccac 180
cagggggggg atgggcttcn aacatccagc cgtgcaagcc tacaggctac aactagcgct 240
tgccggcgagc gccttacaac aaccaattgc ccaattgcaa caacaatcct tggcacatct 300
aaccctacaa accattgcaa cgcaacaaca acaacaacag tttctgcat cactgagcca 360
cctagccgtg gtgaaccctg tcacctactt gcaacagcag ctgcttgcac ccaaccact 420
tgctctggcg aacgtagctg cataccagca acaacaacag ctgcaacagt ttatgccagt 480
gtcfaatcaa ctanccatgg tgaacctgac cgtctaccta caactacttt catctacccc 540
gtccccgtg ggcaatgcac ctacctactt acaacaacaa ttgctgcaac aaattttacc 600

<210> 6933
<211> 549
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-H11

<400> 6933

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cggatgttga gaaatgcca ttcctgagga atatcattgg agctacaacc tttccctcg 120
cttggggggg gggggggctg ctcaaggagg caagggtcca atttttgagg aagggtcagg 180
ctttgagtct gcattcaagc ttttccatgg ccgagatgga atagttccc tttcagaaag 240
atcatatgta tctgatgaaa accacaatga gagcattgat gtcaggactg aacctgctct 300
gccgtttaat ccattggctg ctagagcagc cacaataagt ctatcagcat ttggaccatt 360
tggttttggc tttttcaacg gcaagggcaa aaggcagaac aagaaacca acaatctaga 420
tcagtccac cagaagcca agacaccaga tcagtcttcc atgaaacaaa aaggagtcaa 480
cccaccatca catgaggcat tcagcgatga gtggttgga aatggccagt gccacttgc 540
gcggtctta 549

<210> 6934

<211> 590

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-K6-H12

<400> 6934

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gaccaagata tttccctcc ttatgctcct tgctctttct gcatgtgttg ctaacgcgac 120
aattttccct caatgctcac aagctcctat agcttccctt cttcccccat accttccggg 180
ggggggggcgt cantatgtga aaaccagct cttcagccct atagggtcca acaagcaatc 240
gcagcaagca acataccttt atcacccttg ttgtttcaac aatcgccagc cctatctttg 300
gtgcagtcac tggtacaaac catcagggca cagcagctgc agcaactcgt gctacctgtg 360
atcaaccaag tagctctggc aaacctttct cctactctc agcaacaaca atttcttcca 420
ttcaaccaac tgtctacact gaacctcgt gcttatttgc agcagcaaat attactacca 480
tttanccagc tagctgcagc aagccgtgct tccttcttga cacagcaaca gttgctgcct 540

ttctaccagc agtttgcggg gtaaccccg c aaccctctta caactacaac

590

<210> 6935

<211> 614

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-H4

<400> 6935

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cactgagcca cctagccgtg gtgaaccctg tcacctactt gcaacagcag ctgcttgcat 120
ccaacccact tgctctggcg aacgtagctg cataccagca acaacaacag ctgcaacagt 180
gtatgccagt gctcagtcaa ctagccatgg tgaaccctgc cgtctaccta caactacttt 240
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aaattgtacc agctctgact cagctagctg tggcaaacc tgctgcctac ttacaacagt 360
tgcttccatt caaccaactg gctgtgtcaa actctgctgc gtacctaaa cagcgacaac 420
agttacttaa tccattggca gtggctaacc cattggtcgc taccttctg cagcagcaac 480
aacaattgct gccatacaac cagttctctt tgatgaacc tgccttgag caaccatcg 540
ttggagggtg catcttttag attacatatg agatgtact gacaatgggt ccctcatacc 600
gacatgtggt tcct 614

<210> 6936

<211> 602

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-H5

<400> 6936

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cgctgtcccg gagcagtcgc tgggtgtgag ccggtgtgt gtcgcgccg cctcccgct 120
cggttccag cgcgggatgg cgcgcgccg tggcggggac ggctacgtct cgacgcggtc 180
tggcgcgggc ggggaccgag cgcccatggc cacggagatg gcgcgctgt tccccgggtg 240
cgactacgag cattgggtca tcgtgatgga caagcccgcc ggggagggcg ccagcaagca 300

gcagatgatt gactgctaca tccagaccct cgccaaggct cttggaagcg aggaggaggc 360
gaagaagaag atctacaacg tctcgtgcga gcgctacttc gggtttgggt gcgagatcga 420
tgaggagaca tctaacaagc tcgaggggct ccctggtgtt ctctttgtgc tcccggattc 480
gtatgttgat gctgaataca aggactacgg agctgaactc ttcgtcaacg gtgagattgt 540
tcagaggact cccgagaggc agaggagggt ggagcccggt cgcgagaggg cagcagacag 600
gc 602

<210> 6937

<211> 229

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-K6-H7

<400> 6937

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gccagtggca gcagggacga cggcgccagc ggcggcatcg cggcgggtctc ggggtcccaac 120
aagaancccg gcgggggggg gggggggggc gncctcctt cnntcccccc cccnntntcc 180
atccccnenn cncctntnnc tctntccttc ttncnncnn nccactcca 229

<210> 6938

<211> 561

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-K6-H8

<400> 6938

ctaacaacaa tggctaccaa gatattatcc ctcttgccgc ttcttgcgct ttttgcgagc 60
gcaacaaatg cgttcattat tccacaatgc tcaacttgctc caagtcccat tattacacag 120
ttctcccccac cagttactgg gggggggggg gaacaccag ctgtgcaagc ctataggcta 180
caacaagcaa ttg'cggcgag cgtcttacia caaccaatct cccagttgca acaacaatcc 240
ttggcacatc taacaatata aaccatcgca acgcaacagc aacaacaatt cctaccagca 300
ctgagccacc tagccatggt gaaccctgcc gcctacttgc aacagcagtt gcttgcatca 360
aaccacttg ctctggcaaa cgtagttgca aaccagccac aacaacagct gcaacagttt 420

ctgccagcgc tcagtcaact agccatgggtg aaccctgccg cctacctaca acagcaacaa 480
 ctgctttcat ctagcccgct cgctgtggcc aatgcaccta catacctgca acaacaattg 540
 ttgcaacaga ttgtaccagc t 561

<210> 6939
 <211> 524
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-069-Q1-K6-H9

<400> 6939

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 ttcttccatt caaccaactg gctgcattga actctgctgc ttatttgcaa caacaattac 120
 cattcagcca gctagttgct gctaccccc agcaatttct tccattcaac caactagcag 180
 cgggtgggct ctgctgctta tttacagcag caacaactac taccattcag ccagctagct 240
 gatgtgagcc ctgctgcctt cttgacacaa caacagttgt tgccgttcta cctgcacgct 300
 atgcctaacg ctggcaccct cttacaactg caacaattgc tgccattcaa ccaacttgct 360
 ttgacaaacc caacagtgtt ctaccaacaa cccatcattg gtgggtgccct cttttagatt 420
 gcttatgagt tatagttcaa taatgaagtt ttttggatga tgtttgtggc gtcccaaaaa 480
 taagaaagta catttctntn nnanaaaann nnnnnnnnnn nnaa 524

<210> 6940
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-A1

<400> 6940

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 gccgggaaaa tttaaaaatt tccatttatt accacgggga ggtaaaaaaa atttttggtt 120
 taccgggggg ggccccaat agaaacacat ttttaatttaa aatggggggg gtaaaaaggg 180
 caaaaccccc ccattaaatc caggcaggat aaaaaaaccc agcattcttt attttaaaaa 240

aaaaaaagct ttttaagaaa atgttttttct tttggaaaaa acccttaaaa aaaaaaattt 300
 tggggggggga gggaaaacga atgaaaactt accattggg 339

<210> 6941

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-A10

<400> 6941

gcgggggggg ggttggttaa aactaaaaat gtctttgtta ttctgggagc ccaaacaatca 60
 gacaaaaact ttattattga actataactc ataagaaact aaaaggggag ccaccaaga 120
 tgggttggtg gtaaaaccct tctggggggg gagggggggg tttttaatgg caacaattgt 180
 tgcagttgta agagggggcc aacgttaggc gcaacgtgct ggtagaacgg gaacaactgg 240
 ggggtgtatta aaaagggaga aggggttaca ccaactaact ggctgaatgg gagtagttgt 300
 tgggtggtgta aataaacagg agagatcaat gctgccaat ggttgaatgg aaaaaattgt 360
 tgggggtagg cagaaagtaa ctgggtgaat gggagatgtt ggtggtgcaa 410

<210> 6942

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-N6-A11

<400> 6942

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 cacacgttgg tttgagggca ccattatcga gtcattcat atgtaatcta aaagaggcac 120
 cttcaactat gggttgctgc ctctacatgg gggggggggg gggagagaac tggttgtatg 180
 gcagcaattg ttgctggtgt aggaaggggg ggaccaatgg gttagccact accaatggat 240
 taagtaactg ttgtcgctgt ngtaggtacg cagcagaatt cgacagtatc agttgggtga 300
 atggaagcag ctgttgcaag taggcaacaa ggttttgcca caattaagtg agtgaaagct 360
 ggatcaatct gttgcgacaa ttgattgtgc aggtatttag gtgcattgtc cac 413

<210> 6943
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-A12

<400> 6943

gtggaagcaa atggcccaaa aaaaaagagc cctaaatggt tgtgcacagt gtgaaaaaac 60
aactggcggt ttttctaaca atgagaacat aattatgttt tacgcaagcc agggcccagt 120
ctttgacaaa attccgaacc aaattacagg aaacatggag 160

<210> 6944
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-A4

<400> 6944

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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt tttttttttt ttttttttgg ggggggggtgg tttttttttt tttttttttt 180
tgaaaaaagg gggggaagga aatttttttt tggggggggg gaaaaaaaat agaaaaaaa 240
tttttttttg gaggaaaaaa aggaaaaaaa ggaagggggg ggggcccacaa ttgggtggtg 300
ggaaaaaaa aagttttgtg ttt 323

<210> 6945
<211> 496
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-A5

<400> 6945

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tgaggaagtt gcacatatca gtatgagaac tttattatta cagtttaaag cataaaaaaa 120
tttagaagat ggcaccacca atggtgggct gctgcagggg ggggggagga ttcgtcaaag 180
caagttggtt aaatggcagc aattgttggt gttgtaagaa ggcgacattg tttgccacat 240

cctgtgggta gaatgggagc aactgttgct gttgcaagaa ggcgttaatg tttcccacaa 300
cctgggggta aaatggcagc aattgttggt gttgttgcaa gaaagcagca atgtttgcc 360
caactttag atggaatgga agcaactgtt gctgcagtaa gaaggcagca gggctcctga 420
caagttggtt gaatggtagt aactgttggt cctgcaagta aacagcaggg ttcaccccag 480
ctagttgatt gaatgg 496

<210> 6946
<211> 555
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-069-Q1-N6-A6

<400> 6946
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ttattgaact ataactcata agcaatctaa aagaggcacc accaatgatg ggttggtggt 120
agaacactgt tgagtttggc aaagcaagtt ggttgaatgg cagcaattgt tgcagttgta 180
agaggggtgcc agcgttaggc atagcgtgca ggtagaacgg caacaactgt tgttggtgta 240
agaaggcagc agggctcaca tcagctagct ggctgaatgg tagtagttgt tgctgctgta 300
aataagcagc agagttcaat gctgctagtt ggttgaatgg aagaaattgc tgggggtagg 360
cagcaactag ctggctgaat ggtaattggt gttgcaaata agcagcagag ttcaatgcag 420
ccagttggtt gaatggaaga aactgatggt gctgagagta tgcagcaagg tttgctagca 480
caagttgttg tagttgttgt gccctgatgt tttgtgccac caaatggacc aaaggtaact 540
gctgtaatag ggctg 555

<210> 6947
<211> 536
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-A7

<400> 6947
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cggatatgagg gcaccattat cgagtacatc tcatatgtaa tctaaaaaag gcacctccaa 120
 ccatggggttg ctgcctcggc ggggcagggg tcatcaaaga gaactgggtg tatggcagca 180
 attgttgctg ctgtaggaag gcggcgacca atgggttagc cactaccaat ggattaagta 240
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 gcagctgttg caagtaggca acacggtttg ccacagctag ttgagtcaaa gctggtacaa 360
 tctgttgcaa caattgttgt tgcaggtatg taggtgcatt gccacagcg agcgggctag 420
 atgaaagcag ttgttgttgt tgtacgtaag cggcaggggt caccatgggt agttgactga 480
 gcgttggcag aaactgttgt aactgttgtt gttgctgggt tgcaactacc ttcgcc 536

<210> 6948

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-A8

<400> 6948

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 cattgctcac actgacactg ccacccatgg tgatgctga cacattatta ctcaatcatc 120
 gccgctaaat gactcaacta gctagctagc gcagcgggtg ggggtgcagc acatag 176

<210> 6949

<211> 576

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-A9

<400> 6949

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 ctataactat aagaaactaa aagaggcacc accaatgatg ggttggtggt agaattgctgt 120
 tgggtttgtc aaagcaagtt ggttgaatgg gggggggggg ggcagttgta agagggtgcc 180
 agcgttaggc gcagcgtgct ggtagaacgg caacaattgt ggttggtgta agaaggtagc 240
 agggctcaca ccagctagct ggctgaatgg tagtagttgt tgctgctgta aataagcagg 300
 agagttcaaa gctgtcagtt ggttgaatgg aagaaattgc tgggggtagg cagcagatag 360

ctggctgaat ggtagttggt gttgttgcaa ataagaagca gagttcaatg cagctagttg 420
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 ttgtagttgt tgtgccctga tgttttgtgc caataaatgc accaaaagta actgctgtaa 540
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<210> 6950

<211> 544

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-B1

<400> 6950

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 tgttggtagg aggccgctcg gtctgtcaaa gcaagttgga caaagggcaa caattgttgt 180
 agttgtaaga gggttgcggg gttagccgca aactgctggt agaaaggcag caactgttgc 240
 tgtgtcaaga aggaagcacg gtttgctgca gctagctggc taaatggtag tagtatttgc 300
 tgctgcaa at aagcagcggg gttcagtgcg gccaatgggt taaatggaag aagttgttgt 360
 tgctgagagt aggcagtagc tagctggctg aatggtaata gttgttgctg caaataagca 420
 gcaggggttca gtgtagacag ttggttgaat ggaagaaatt gttgttgctg agagtaggga 480
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 gccc 544

<210> 6951

<211> 516

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-B10

<400> 6951

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 atccaacagt atagtagggg aataaacgtt gaacagtaac atcattacac atcaaacaaa 120
 aaattatata gtgccggtgg gaagacatct aacagggttg aactgcgatt ctgtcctgag 180

tttccatgat acatccggag ctccatgtca gttcgcggtt gacattcaag ggaggcctca 240
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 tgtggcacia gtgctctgga tgtaccagtg tgcgtggcgc agggagtgtg atccaagctt 360
 gtcagtaatc tcagcagcat tcatggcatt gggaagatct tgcttggttg caaaaacaag 420
 cagcacagca tcacgtagct catcctcgtt cagcatcctg tgggagctca tttttggctt 480
 caacaacacg gtcacggtca ttggtgtcca caacaa 516

<210> 6952

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-B4

<400> 6952

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 aactaataat caatctaaaa gggggccccc caatgatgtg ttgttggtag gaggctgctg 180
 ggtttgtcaa agcaagttgg acaaagggca acaattgttg tagttgtaaa aggggtgcgg 240
 ggtagcccc aaactgcttg taaaaaggca gcaactgttg ctgtgtcaaa aaggaagcac 300
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 ggttcaatgc ggccaattgg taaaagggaa aaagtttttg ttgctgaaag taggcaataa 420
 ctagctggct aaatgggaat agttgttgct gc 452

<210> 6953

<211> 541

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-B7

<400> 6953

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 aattgcaaac accactaatg tcattgctgc tgcattggatt attttggtag tatgagtgg 180

acaagccgca cattgatggt aggtattgtg ctgctgtcaa gattgccacc gcactttgag 240
tagcttgttg agatccacat aactcacatg gttgttgttg ttgctcctcc tggattatgg 300
attgaaccat gttgtagatt gcttggtgaa tgtattgtgg ctcaatctgc ctaagatcat 360
gacaacattg ttgctgcaat acctggcagc tacttggttg tatcaaactg gattggagaa 420
aaggcattac caaagggtg cactgctgcc ttaggaattc atgacaattt tttagatttg 480
agctactgct atagtagtta tagctgcacc ttgtagtctg ttgctgctcc tggcaatgac 540
a 541

<210> 6954

<211> 541

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-C1

<400> 6954

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ttattatgac catgcatata ttattgggca taccacacat gataatgggg ggcgtcttac 120
tggattatta catatataga tagaaagaga tggggggggg ggatttccca aatatcatga 180
atcaatagta gggcggaatg ggagcggaaa cccacaggg gttggggcgg tagctgggca 240
gctggtactg gtagagtcca cccatgggcg ggatgttttg cgccatcatt atggccatgg 300
ggttgagacc ctgggctgcc agcagctgct gctgctgctg cataaaagct ggcttgtaca 360
ggctgttgtt ggcggcagcg gcacgcttaa actgcataat tatttgcagt tgctgcgcga 420
cggactgcac gtccatgac ctcatatgct ggtggcagaa ctgttgccgg agcggctgga 480
acatggcgct cggttgcca aaccggcgct agtagggcgc ccccgccagg gggctgcact 540
g 541

<210> 6955

<211> 541

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-C10

<400> 6955

gtttgtttgt gggttttgag aggaaaaaaa aagatggcaa aatgtttatt accacattag 60
 ttgcctggca ttcccagtgc atcaaacttg taacacaaac ttggcacgca atgttttatt 120
 tcagatcaca ttgaccggtt cacaaccacg ggggggtggg ggacagggca cgaaggtaga 180
 aactcaaaca aatgccacat aagttcaggc agacttaact ctggtgtaac acacagagcg 240
 ctaaattatg actcttcagc cagagccaac agataatact caaacaaaac tctggtttcc 300
 atggaagcag gcaaggcatc caagctcaac tgctcaagcc tcgtagatcc agggatgaag 360
 gttgctcttc cactgtgcca caccttcagg gaaccagaga gcgatctcct tcttcccgtt 420
 ctccacggag tcgcttccat ggatgacatt cctgccgact tccacggcgt agtccccacg 480
 aatggtaccg ggggctgcct cccaaggcct ggtggcccca atgatcctgc gggcagtcaa 540
 c 541

<210> 6956

<211> 141

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-N6-C11

<400> 6956

aaataatata tttttttttt tttttttttt tttttnttt tttttttttt tttatttttt 60
 tatatttttt tttttttttt tattttgttt atttttattt ttttttttta ttattatact 120
 ataaattttt tggggggggg g 141

<210> 6957

<211> 273

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-N6-C12

<400> 6957

ctctaaacgg ccggcgggtgg gggggggggg gggtatatta ttcctttcca tttcaatggt 60
 tcattcaggt cattgctcac actgccaccc atggtgatgg gggacactac gttactcatc 120
 gccgctaaat gagtaaaacta tcgagctagg tagctagtca ncngctccgg gggggggggg 180

acantacata ntttcctcan tagtanacac cccccgcagc tgcgttgcaa gggcagggac 240
ctggctgctg cagctgcagg ccgcacatcg ccg 273

<210> 6958
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-C2

<400> 6958

gggtgggggg gttttttttt tttttttttt ttggggaacg agcaggcatt tttattcgaa 60
gcaaaagtgc agccaattcc caccatacta ggaaccaggc cagcgtgcc caaaaacgct 120
caaacaagga aaaaaaacga gaaggaacca aagggtggtg gaaaccaagt acacataact 180
ccaatacacg actaacaatg cgaattgggg ggaaacagat cgaaatgcag gcgatggttc 240
tccggcctgg gcttcttc 258

<210> 6959
<211> 481
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-C4

<400> 6959

actgcagcct taaaatcata gatttacttg tttcagttgc atacagcatc agagtctagg 60
aaaacgggca aaggggcccc attcaagcat cgacgaagta ccaatgtacc aacaacaggc 120
gtagggctca acatcgacaa atttattacg agaaagacaa tacgacaatc tggttggtca 180
cattgactcc agatgcaaaa gaccacatga ttccatacag gcggcagaat gtatcactcc 240
aagatagggg ctatttaagc atcagcaaac ccagttcgg agagcttgag gggggcctct 300
ttgtagtcat caaagaaagg ctttttatcc gcagcatatt tttcgacaag gagggcggaa 360
aacagggctg ctcaacaggg ctttgtcact tgggagctga agaaggccct tcttatcacc 420
actcaaaagt tccttgaagt aagagttgtc aaagacaaaa gggttttag tccaggcccc 480
c 481

<210> 6960

<211> 546
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-069-Q1-N6-C6

 <400> 6960

 ggggtgggtgt gttttttttt tttttttttt taaaaagtac tttcttattt ctgggacgcc 60
 acaaacatca tccaaaaaac ttcattattg aactataact cataagcaat ctaaaaaagg 120
 gcaccaccaa tgatgggttg ttggtagaac actggggggg gtgtcaaac aagttgggtg 180
 aatggcagca attgttcag ttgtaagagg gtgccagcgt taggcatagc gtgcaggtag 240
 aacggcaaca actgttgttg tgtcaaaaag gcagcagggc tcacatcagc tagctggctg 300
 aatggtagta gttgttgctg ctgtaaataa gcagcaaagt tcaatgctgc tagttgggtg 360
 aatggaagaa attgctgggg gtaggcagca actagctggc tgaatggtaa ttgttggtgc 420
 aaataagcag cagagttcaa tgcagccagt tggttgaatg gaagaaactg atgttgctga 480
 gagtatgcag caaggtttgc tagcacaagt tgttgtagtt gttgtgccct gatgttttgt 540
 gccacc 546

<210> 6961
 <211> 514
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-069-Q1-N6-C7

 <400> 6961

 ggggtgggggt tttttatttt tttttttttt tttttttttt tttttttttt tttttttttt 60
 tttttttttt tttttttttt tttttttttt cccggaaaag ggcaaccaa aattgggtta 120
 ttttagggaa cccaccccc gtaggggggc cccggggggg ggacccccca aaaggaaaac 180
 tggggccccg ggggcccccc ggaaaatccg gcccgggccc ggggggacac cccctttccc 240
 ctaaaggggg gcgaataaaa gctgggggaa aacaggggaa aaggggggtcc ccgggggaaa 300
 atgtaacccc ccaaaaattc cacacaaaaa acgacccgga accaaaaagg gaaaagccgg 360
 ggggccccaa ggggggagca aaccaccata aatggggggg ggctaactgc cccctttcca 420
 gacggaaaac cgggtgggcc cctgcaaaa aaaaaagggc caaccccccg ggaagagggg 480

gtttgggaat gggcccccg gggggttttt tttt

514

<210> 6962

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-C8

<400> 6962

atcaactcca aattgggttt tagcacaatt aatattagtt tgcattatgt agcaatgctc 60

atgactcatg agccaccaac atatTTTTTc tgggacacag aacatacaaa atcttttaaa 120

aaggggttat attgaacct tcatcaaatt ggtgggggac ttaagctatt ttcgttcctt 180

ttggcagctc ataccaagtt tgagggttgt agtcatattc tacgtatgga cggggcaact 240

tttttaagga aacgatgtcc tcaaaattat catgcccata aagaacaagg attttgcaat 300

cacattcttt tcttgaaata tgtgttttcc tttcaatagc atgcacttca gcatcaaaat 360

agagaccact ctgttcacct taccttgga caaaaaacag ggtcccaaaa ataaacattt 420

tcacattctt gggccttggt tggcac 446

<210> 6963

<211> 551

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-C9

<400> 6963

ggtgtttttt tttttaaaaa tgtactttct tatttctggg aagccacaaa catcatccaa 60

aaaacttcat tattgaagta taactcataa gcaatctaaa agaggcacca ccaatgatgg 120

gttggttgta gaacgctggt gggtttgta aagcaagggt gttgaatggc agcaattggt 180

gcagttgtaa gaggggtgcca gcgtaggcg cagcgtgcag gtagaacggc aacaactggt 240

gttggtgtaa gaaggcaaca gggctcacat cagctagctg gctgaatggt ggtagctggt 300

gctgttgtaa ataagcagca gagttcaatg ctgccagttg gttgaatgga agaaattgct 360

gggggtaggc agcagctagc tgactgaatg gtagttgttg ttgcaaataa gcagcagagt 420

tcaatgcagc cagttgggtg aatggaagaa actgctgttg ctgagagtag gcagcaagggt 480

ttcctagcac aagttgttgt agttgttgtg ccttgatggt ttgtgccaac aaatgcacca 540
aaagtaactg c 551

<210> 6964
<211> 549
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-D1

<400> 6964

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ccaccaaaca gcgtcatcat gtttcaggta caggatgttc gaagctattt gtgggagcga 120
gtggtacgtc gagtaacaca gacagctaag ggtgaagcgc agcttattat aatattatat 180
atatatatat aataaaggaa gaaattgcac gaattttaag ggaagccgtt cgcaagtaca 240
acttcatttg attccagatg cgtttaataa atgcttaaca ctccatgcga atttagcgtc 300
aagtagaccg gtcttcagaa gatacgaagc acaagctcaa accatatctt gaacagacgc 360
cgccagtact cctaaatctg tcaggcatgg tgtaacattt agtatctctc gtggcgcttg 420
ctgcgtccc tggagcgtga acgctctctg ctcttgaat catgtccacg ggaagcggtg 480
ataatccgta ttccgatcac ggtcatggcg cctgtcccta tcatgacgtt tatcacgaac 540
ccctttcta 549

<210> 6965
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-069-Q1-N6-D10

<400> 6965

gcggttggtt gggttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt tttttttttt tttttttttt gggggggggg ggggggggnat tttaaaaaaa 180
aaaaatttaa aaccaatttg ggggaatata aaacaaaaaa aaattaaaaa aggttttttt 240
ttttttgggg gagacaaaaa aaataaaaaa aaaaattttt tttttaatta attatttaaa 300

aaaaataaaa aagggggggcc cacaaaaggg gggtttataa aaaaaaatta tatttttttta 360
 aaaaagaaag tgttgaatag gaaaattttt gttattttta aaaa 404

<210> 6966
 <211> 556
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-D4

<400> 6966

gcctgtggtt ttttttttaa gaactagaaa tgtactttct tatttctggg aagccacaaa 60
 catcagacaa aaaactttat tattgaacta taactcataa gaaactaaaa gaggcaccac 120
 caatgatggg ttgttggtag aacgctgctg gggttggcaa agcaagttgg ttgaatggca 180
 gcaattgttg cagttgtaag agggtgccag cgtagggcg agcgtgctgg tagaacggca 240
 acaactgttg ttgtatcaag aaggtagcag ggctcacacc agctagctgg ctgaatggta 300
 gtagttgttg ctgctgtaaa taagcaggag agttcaatgc tgccagttgg ttgaatggaa 360
 gaaattgctg ggggtaggca gcaggtagct ggctgaatgg tagttgttgt tgttgcaa 420
 aagaagcaga gttcaatgca gctagttggt tgaatggaag aaactgctgt tgctgagagt 480
 aggcagaaaag gtgaggctag cacaagttgt tgtaattagt gtgccctgat gttttgtgcc 540
 cataaatgca ccaaag 556

<210> 6967
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-E1

<400> 6967

gttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 ttttttttta tttttttttt ttttttttaa aaaagggggg tttttttttg ggggggacccc 180
 caaacttaga aaaaaaaatt tttttggggg atttatcaaa aaaaaaata aaagaagggg 240
 gcccccaag gggggggggg gggaaaaaaa cggtgggggtg gaaaaaaa gggggggggg 300

agggaaaaaa ttttggcaaa aaaaaagggg gggcaagatt agggcaaacc ggggggaaaa 360
 aaaaaaaaaat cggggggtgt 380

<210> 6968

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-N6-E10

<400> 6968

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 ttttaaaatg ggaacaatac tttttttttt tcatttcaat tggtcattca ggggatttgt 120
 caccctgacc ctgcccccca tggggattcg gggggggggg ggggggaaaca tccccgctaa 180
 atgactcaac taggtagcta gcccgcggct attctccagc acatagtttt ttcagggggg 240
 gacaccccc gcagcagcgt aggggcctgg agtcggttgt tgtaagccca acatcaccgt 300
 aagttggtgg gcttttttggg ccggcaaaaag ccccgagacc tggccctttt gnggggtggtt 360
 ttgaaggatg gactggaaga ccaaacccaa aatccccttg gaccggggct ggtggttcac 420
 c 421

<210> 6969

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-E11

<400> 6969

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 tttttgagat ttatttgttt ttttttggga gggggcggtt ttttttctaa aaaaaccttt 120
 tttttttttt accataatat ttatctaggg gggggggggg gggctccctt attatttt 178

<210> 6970

<211> 574

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-E12

<400> 6970

gggggtgtgg ggggtttata ataatagtat tctcgttgac tcaaaaatgg gcaggctctga 60
cagacgttat cctaactcag aggcaattta caaacctcc aggctccagc cgaaagtatc 120
ctgtgttcac aggccaagtc ctacttcaac agggtaagaa ggtgaacgaa aagattcgag 180
aaactcacat caatctaaaa ttgcaacact atcaacgacg atgttttagca ttattccacc 240
accataactc aagacgatga tgggggacct tgttctaggt ctagatcgtc caccatcttc 300
tgtatagatt cgatatcacc tgttgctgat aggggtgtgaa tccgcaggct gtctgcatcc 360
tcattctgtaa ctccgaagat ttctttgact acaagtgagc tgtcccgtga acagaactcc 420
ggaagttctg ataagtatag gatTTTTTcca aacagtgctt gtacagcaag cttccgctta 480
aaaccttgct ctgtaaaacc agataagtcc ataactactg gccctttttc ccggacaatt 540
cgtcttgaaa tctcatttaa aatttcagca actt 574

<210> 6971

<211> 551

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-E3

<400> 6971

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aaaacacttg acaaccgctc catgaaaccg aactgcatta agacacaaac cacatgtact 120
tcaaacttcg aagaacaccc tcctggcaga gaccacaggc acaaagacaa cccagggtga 180
cacagcaaag aatagactga tcggtttatg atgcgtacag tcttgatctc gatctctcaa 240
tctccagcaa tgtgcacaag aaatgaacgg gactttatga aaaactaatg agcgg tactc 300
caggtgccaa agctgcatag tgccatccaa tgatccaaag ctacgcctcc agaccgaaac 360
cgctttcagc gttgaatgaa ctgaaaacaa ttgtatctat gaatatcttc cgctgcagat 420
tatattctgg ttgcatttgg tttaccctgt attgtcggca caacagcggc catctggttg 480
actgcagcat aattctcttt ttcccagaaa gacccaatga atgaacaacc ccttgcttga 540
aaacaatctc a 551

<210> 6972
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-E4

<400> 6972

ttgttttttt ttttttttta aaatctggaa atgtaacttc ttatttctgg ttggccacat 60
acatcatcca aaaactttat tattgaatta caactaataa tcaatctaaa agaggcacca 120
ccaatgatgt gttgttggtg ggaggctgct gggtttgtca aagcaagttg gacaaagggc 180
aacaattggt gtagttgtaa gagggttgct gggttagccg caaactgctt gtagaaagggc 240
agcaactggt gctgtgtcaa gaaggaagca cgacttgctg cagctagctc gctaaatggc 300
agtagtattt gctgctgcaa ataagcagcg gggttcagtg cggccaattg gttaaattga 360
agaagttggt gttgctgaga gtaggcagta gctagctggc taaatggtaa tagttgttgc 420
tgcaaataag cagcagggtt caatgtagac agttggttga atgga 465

<210> 6973
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-E5

<400> 6973

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agtcagagac ataaaaaact ttatttgaca ggaaaaatag agccactgca agcagcaagt 120
acaagtgaac tttatttgat gtatgtctgc gggatataca aagcattgaa ccgggggggg 180
gatttgctaa atatctaaat cgccctcacc tcctccagct aacaatatgc tctgatattc 240
ggcttgcaaa atagaagttt cagtcctctt tgaagagctc acggccaatt atcattcttc 300
ttacctcact agtaccggca ccaatctcaa acaattttgc atctctcagg agacgaccag 360
ttgggtactc atttatgtac ccatttccac caagacactg gattgcc 407

<210> 6974
<211> 493
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-E6

<400> 6974

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ccctttgccca agtccattta atttgtaatt taaaaaaggc ccctccaacg atgggttggt 120
gcagggcagg gttaataaaa gagaactggt tgtttggcac caattgttgt tgctgttgca 180
ggaaggtagc aaccaagggg ttaccactg ccaagggttt aagtaactgt ggccgttggt 240
gtaggtcccc accaaatttg gccacaccca gttgggtgaa tggaaccaac tgttgtaagt 300
aggcagcagg gtttgccaca gttagctgag tcaaagctgg tccaattggt tgcaccacct 360
gttggtgtag gtccttaggt gcattgcccc ccgcaagcgg cttaaataaa agtagttgta 420
ggtaaacggc agggttaacc atgggttagtt gactgaccac tggcttaaac tgttgcaactt 480
gttggtgttg ctg 493

<210> 6975

<211> 529

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-E7

<400> 6975

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atatcagcat gagaacttta ttattacagt ataaatcata aaaaatctag aagatggcac 120
caccaatggt gggcggttgc aataaggggg gagggggcgg caaagcatgt tggctaaatg 180
gtagcaattg ttgttggtgt aagaaggcaa caatgtttgc cacattctgt gggtagaatg 240
gtagcaattg ttgctgttgc aagaaggcat taatgtttcc cacaacttgt gggtaaaatg 300
gcaacaaatg ttgttgtctc aagaaagcaa caatgtttgc cacagcttgc agatggaatg 360
gcagaagctg ttgttgctgt aagaaggcat aagggtccc gacaagtggg ttaaattgta 420
gtagctgttg tgctgcaag tagatagcag ggttcacccc agctagttga ttgaatggaa 480
gaaactgttg ttgctgggag taagcagcaa ggctcgctgc aactacttg 529

<210> 6976

<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-E8

<400> 6976

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tttttttttt tttttttttt tttttttttt ttttttcttt tttttttttt ttttttttta 120
aatttttttt ttttaaccgg gaaaaacccg aggggggggg gggggaattt taaggaaaaa 180
caccgccggg gggggggccc attatcgggg ccatccaaaa gggaaaaaaa aaaaggggcc 240
ccccaacaag gggggggggc cccccaaga caggggtcaa aaaaaaaaaac ggggtggggg 300
ggaaaaaatg ttcctgctgg agaaaggggg gaaccaaagg ggaagcccc cccaagggat 360
aaaaa 365

<210> 6977
<211> 525
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-E9

<400> 6977

ggaaatgtaa cttcttattt ctggttgcc acatacatca tccaaaaaat ttattattga 60
attacaacta ataagcaatc taaaagaggc accaccaatg atgtgttggt ggtaggaggc 120
ccctccgtct gtcaaagcaa gttggacaaa gggcaacaat tggtgtagtt gtaagagggt 180
tgcggggtta gcccctaaact gctggtagaa aggcagcaac tggtgctgtg tcaaaaagga 240
agcacggttt gctgcagcta gctggctaaa tggtagtagt atttgctgct gcaaataagc 300
agcggggttc aatgcggcca attggttaaa tggaaaaagt tggtgttgct gaaagtaggc 360
agtacctagc tggctgaatg gtaatagttg ttgctgcaaa taaacagcag ggttcaatgt 420
aaacagttgg ttgaatggaa gaaattgttg ttgctgaaag tagggagaaa ggtttgccaa 480
agctacttgg ttgatcacag gtagcaccag ttgctgcaac tgctg 525

<210> 6978
<211> 417
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-N6-F10

<400> 6978

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actttattat tgaattacaa ctaataagca atctaaaaga ggcaccacca atgattttgtg 120
gggggggggg gggcggttctt tctttcaaan caagttgaac aaagggcaac aattgttgta 180
tttgtaagag gggtgcgggg ttagccgcaa actgctggta aaaaggcagc aactgttggt 240
gtgtcaaaaa ggaagcacgg tttgctgcag ctagctggct aaatgggagt agtatttgct 300
ggtggaaata agcagggggg ttcagtgcgg ccaattgggt aaatggaaga agttgttggt 360
ttttaaaagta ggcaaaagct agctggctga atggtaatag ttgttggtga aaataag 417

<210> 6979

<211> 547

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-N6-F12

<400> 6979

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ctatatatat atagccatgt ctggagtctg ggggtggggg ggggccgana tcgatgatac 180
agagatagat tcatcggttt gcatgagcat gacttggttg cagccactat gttacaccac 240
catccaccaa cgcattgtaca aagttctgca tcatcatcgc atcgctccg cctgatgatg 300
atagatcagt gcagcgccgt caggacagta gacccttcca ccaccttgaa agtggcaccg 360
cagatctctt ctctgctggc ggggacagcg gtgaccttgt gcttgggggt ctcgtagcac 420
ttgagccctc cgagggcggt ggagtagaag cagccttgcg ggaacggcgc gagcgacttg 480
ccgcatgagc ctttgagcat gtcgatgtcg tcggagaagg cgacgcagcc gtcggcggtg 540
atcccc 547

<210> 6980

<211> 550
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-F3

<400> 6980

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gaagtataac tcataagcaa tctaaaagag gcaccaccaa tgatgggttg ttggtagaac 120
gctgttgggt ttgtcaaagc aagttgggtg aatggcagca attgttgcag ttgtaagagg 180
gtgccagcgt taggcgcagc gtgcaggtag aacggcaaca actgttggtg tgtcaagaag 240
gcaacagggc tcacatcagc tagctggctg aatgggtgta gctgttgctg ttgtaaataa 300
gcagcagagt tcaatgctgc cagttgggtg aatggaagaa attgctgggg gtaggcagca 360
gctagctgac tgaatggtag ttgttggtgc aaataagcag cagagttcaa tgcagccagt 420
tggttgaatg gaagaaactg ctgttgctga gagtaggcag caaggtttcc tagcacaagt 480
tggtgtagtt gttgtgcctt gatgttttgt gccacaaat gcaccaaagg taactgctgt 540
aataaggctg 550

<210> 6981
<211> 567
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-069-Q1-N6-F4

<400> 6981

ggggggtttt tttttgactt aaaatataga tctctaactt tttattactg agaagttgca 60
catatcagta tgagaacttt attattacag tagtaaagca ttaaaaaaat ctagaagatg 120
gcaccaccaa tgggtgggctg ctgcaataag ggggggggag gcgtcaaagc aagttgggta 180
aatggcagca attgttggtg ttgtaagaag gcgacattgt ttgccacatc ctgtgggtag 240
aatggtagca actgttgctg ttgcaagaag gcgttaatgt ttcccacaac ctgtgggtaa 300
aatggcagca attgttggtg ttgttgcaag aaagcagcaa tgtttgccac aacttgtaga 360
tggaatggaa gcaactgttg ctgcagtaag aaggcagnag ggctcctgac aagttgggtg 420
aatggtagta gctgttgctg ctggaagtaa gcagcagggt tcaccccagc tagttgattg 480

aatggaagaa attgttgttg ctggaggtaa gcagaaaggt tgggtgcaac tacttgattg 540
aatgttggga agcaactggt ggtgtag 567

<210> 6982
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-069-Q1-N6-F6

<400> 6982

gggcggaacta gcgatttatt catccattca acctcatcac aatctggtcc tttctactgg 60
cacttgggat aattaactaa aaaacaccca ccgaccgcgg ggtaattggg gacataacct 120
caatgggata cacagacatg ccgccgcaga gcaaaacacg tcgcagatcc cctctttttc 180
taactccggc cctctctctc tctccctctg ggcccgcaaa aactaggcgt tggaggcacg 240
ttagcgccag gttttcctcc catgcttacc cagccacagc cgtccacacc ttggatgctc 300
acagctcgtc cttgacgggc tcggcggggg ctgccttctc ggatgccggg ggccctggg 360
tgggtggtggt ggtggcngcc cctgccgtct ccttgctctt cttgatgaag tcgacgatgt 420
cgtccgccgt cctgccgctg tcgtaggatg tcaccttcc 459

<210> 6983
<211> 539
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-069-Q1-N6-F7

<400> 6983

ggcttggttg gtttttttta tcgaacaccc ttgggagacc aatatcacat tagaatctgg 60
aatgtaact tcttatttct gggtggcgca catacatcat ccaaaaaact ttattattga 120
attacaacta ataatcaatc taaaagaggg caccaccggg gggggggggg ttgtaggagg 180
ctgctggggt tgtcaaagca agttggacaa agggcaacaa ttgttgtagt tgtaagaggg 240
ttgcgggggt agccgcaaac tgcttgtaga aggcagcaac tggtgctgtg tcaagaagga 300
agcacgactt gctgcagcta gctcgctaaa tggcagtagt atttgctgct gcaaataagc 360

agnggggttc agtgcgccca attggttaaa tggaagaagt tgttggtgtt gagagtaggc 420
 agtagctagc tggctaaatg gtaatagttg ttgctggaaa taagcagcag ggttcaatgt 480
 agacagttgg ttgaatggaa gaaattgttg ttgctgagag tagggaagaa aggtttgcc 539

<210> 6984
 <211> 475
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-069-Q1-N6-G1

<400> 6984

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 gagctacata catagtacat gcatgaaagg atgaagtga cttgggtggg ggtcatgca 180
 tggttcgctt tcgttcgtaa gcacgcaagc atcagttgtt cttaacaact ggtggagctc 240
 ctgatctgtc catgaggacg agcaccggtg tggcgggcgg cgccctggca cagtccacct 300
 tcacctcctt cgccgccgcc gccttctcag ggacatggaa ggcagacgca gggaagggtc 360
 tggatgatccc agcaacgctc ttgcagacaa gcttccccgc agccgncggg tcgccaagag 420
 cggggatctt ctgacgggc acccacagca tgagctcctt ggtctttatc ccctt 475

<210> 6985
 <211> 286
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-069-Q1-N6-G10

<400> 6985

atccaaataa atcccaacca aaatatttat tatttcttag aaacccttt ccttttaaan 60
 cccccatttt cggggggggg gggggggggg tccaaaaaaa nccccccac ccttgggggtg 120
 ctgcaaggca gggttcatca aaaaaaacg gttttttggc cccaattttt ttttcttctt 180
 ccggagagtt tcccccatg ggtagcccc ttcccatggg ttaaataact gttgtccctt 240
 ttgggggtcc cccccattgt tttcccccc ccgttggtttt aatgga 286

<210> 6986
<211> 583
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-069-Q1-N6-G11

<400> 6986

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aaaccagcca gcattaaata agcactacgt ttgtccagaa tctaaaaggg ggggaactgg 120
gatttagaga ggagaaaggc gaatanatgg ggaggggggg ggggggcca tnaaccacca 180
ttntaaaacc canttaatcg tccttctatt cctaaatacc tgccatgcca ggacactgac 240
ctcacctatc acccaaacac acaagcaact aactaatcct caagctccta tgaactacag 300
aaaacaaggg caagaaacaa gctcaatggg atctcaggat ttcctcaaac aacccccagc 360
ctcaggttcc cgccccatac cactgtcaat ggccgagcta accaaaaaaaa aaatttaaca 420
gccatttggg cttgccggac ttctcagctg atgatttcag gtcctgtggg gcgacatcat 480
ttcctttctc ctcgtttttc tctactgctt tggctaataa aagctctttg ttcaagacat 540
cagcctcaac attggtgagt tccggtgata cagttcctac aag 583

<210> 6987
<211> 558
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-G2

<400> 6987

agaaatgtac tttcttattt ctgggaagcc acaaacaatca gacaaaaaat ttattattga 60
actataactc ataagaaact aaaagaggca ccaccaatga tgggttggtg gtagaacgct 120
gctgggtttg tcaaagcaag ttggttgaat ggcagcaatt gttgcagttg taagaggggtg 180
ccagcgttag gcgcagcgtg ctggtagaac ggcaacaact gtggttgat caagaaggta 240
gcagggctca caccagctag ctggctgaat ggtagtagtt gttgctgctg taaataagca 300
ggagagttca atgctgccag ttggttgaat ggaagaaatt gctgggggta ggcagcaggt 360

agctggctga atggtagttg ttgttgttgc aaataagaag cagagttcaa tgcagctagt 420
 tggttgaatg gaagaaactg ctgttgcctga gagtaggcag caaggtttgc tagcacaagt 480
 tgtttagatt gttgtgccct gatgttttgc gccataaat gcaccaaagg taactgatgt 540
 aatagggctg atgattgt 558

<210> 6988

<211> 542

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-G3

<400> 6988

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 tattattgaa ttacaactaa taatcaatct aaaagaggca ccaccaatga tgtgttgttg 120
 gtaggaggct gctgggtttg tcaaagcaag ttggacaaag ggcaacaatt gttgtagttg 180
 taagaggggt gcgggggttag ccgcaaactg cttgtagaaa ggcagcaact gttgctgtgt 240
 caagaaggaa gcacgacttg ctgcagctag ctgcctaaat ggcagtagta tttgctgctg 300
 caaataagca gcgggggttca gtgcggccaa ttggttaaata ggaagaagtt gttgttgctg 360
 agagtaggca gtagctagct ggctaaatgg taatagttgt tgctgcaaata aagcagcagg 420
 gttcagtgtg gacagtttgt tgaatggaag aaattgttgt tgctgagagt agggagaaaag 480
 gtttgcacga gctacttggt tgatcacagg tagcacgagt tgctgcagct gttgtgccct 540
 ga 542

<210> 6989

<211> 497

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-G4

<400> 6989

gcagttcaag gatcttttca ttgccatgtg tgcacaaatt cctcatgcag aagacaaagc 60
 tgcttgctcg gggcaacatc gccttaaaac aggcaacaga ctgccactac ccctaaagga 120
 gctgagcctg ctctgcgtgc gtcattggcca accagcagca gccagcacct gaacaaaaaa 180

aacctgaagc agcacctgaa ccaagaaact ggaccagttg ggcctcaaac agcaaatagc 240
 tggcagctga agtatcgctt cggattagtc tgggtgttctt tatctacatc ttgatgctga 300
 agtagtcgga atcaaaatga tgcagcctta catatccatc ttcaccgcca cttgaaaaac 360
 tccgcccacac aggattaaat gccaaagcat taattggccc aaaagtcctt taacaccacc 420
 aatttcctct tgcaaaatct tgtgatagaa tttagcctcg aattaccagc acgggggatc 480
 tggcatagtc acattca 497

<210> 6990

<211> 574

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-G5

<400> 6990

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 attcagagca gcctgaacca tgatcccagg aacgggaaga ctgccaccaa caagcgcatc 120
 acgagtgggtg cctgcttgta catggtactg cccaacccca tcgttcctgg cgtccgccgt 180
 cgtctcatc tcgttccttg tgaaggagtg gcagtataat ctgcatcttc ctccccagtc 240
 gctgaaggct gcgattttgt gcttcgatca gtggtgccag ctgagaatga gctcctctc 300
 tttgtctcct gaggcagcgt gtcgttgctc agaagctcat cccatcctcc atatccactg 360
 ctgctgctct tgggtgttatc gtcagctcca acaccagttg aggcagcacc agcaaaattg 420
 ttagaaaacac ttgactggta gttgctcgtc ctcttctcc cctcataata gttgctgctg 480
 ctgctgctgc ggctgcggta tccattgcct cgaccacctg ccgcaaagcc agcggcgctc 540
 tcagggtaat ctctctcttg gaatggtctc ctcc 574

<210> 6991

<211> 553

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-G6

<400> 6991

agacctaaagt ctgtcttatt cactgatatc acgtgcttaa atccgtactc gttgtcgagc 60

agaatataaa cacaacggat gttacactga ttgcgcaaga aattgtagct acagacaaga 120
 ctggacgttc atctacaaaa aaacgatttt tcttgtaaac ttttcgatca tgctcaacaa 180
 aaggtagcac ttccgtcact acatcaaaat tcggatttac agcaggaagc aactagccca 240
 aattctacaa tctaaaacag atgagacaac aaaaggagag aagaagctat aagccgctga 300
 acaaaccgcg ttgaaattga ggttgcgga aacaatgagc catttgaact ccactacttc 360
 ggtggcgctca ttcaagccgt tttggcagtg gctgaaaaaa ccgtcctcta ggcaccataa 420
 atacgttcgt ttttactcca cctcctgtgc gctccttgga agcaaatgac tatgcaagat 480
 gatcttcac cttcccatgc atatttttta caaaatggac ggctctcacc accccagttt 540
 agaaccattg cca 553

<210> 6992

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-N6-G7

<400> 6992

gccttggtgg gttttttgca gcacaaaaaa gcaccatttt tttccttagg atttaactta 60
 gaataaagcc tgacgggggt aacagcacc atcgatccgc agtccatgct ggttgatgca 120
 tgggtctgct ggagccgagg atgaacacag cactgagagg gggcgacaga gcgaccttca 180
 atcaaaaaca cagatgggca acaacaaaca cgagacgaac gaagataaac actctggact 240
 agggtaaaca acacgggagc gaacaggata acttggggcg gcggggccca ccggtcagtt 300
 cctccagttc ccgtcggagt tggcgtagcc gccgccacgg ttgccaccgc cgtagnctgc 360
 ggcaccacca ccgtaggcgg cgtcgncacc accgtagccg tcggcacc 408

<210> 6993

<211> 570

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-N6-G8

<400> 6993

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 tcgcttcggg acgaagcggg ctacacgaac taccgcacaa aatagacttt aaagccgttt 120
 ttacactagt tcttcaccac cccgtctaaa gggggggggg gggataaggt taaaaattgc 180
 cctcctccat ccctccgccc ccaactggggc cgggcgcgag atacgcctac gcgcgctcgc 240
 cgcggtatgc gcgggcgagc tggatgtctt tgggcatgat ggtgacgcgc ttggcgtgga 300
 tggcgcagag gttggtgtcc tcnacaggc cgacgagga ggctcggcg gcttcctgga 360
 gggccaggac ggcgtggctc tggaaaccga gatccgtctt gaagtcctga gcgatctcac 420
 ggaccaggcg ctggaagggc aacttcggga tcagcagctc cgtgctcttc tggacttgc 480
 ggatctcgcg cagagccacc gtcccgggccc tgtacctgtg gggcttcttc acgccgcggg 540
 tcgtcggcgc agacttcctc gccgccttgg 570

<210> 6994
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-069-Q1-N6-H1

 <400> 6994

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 aaaaagcttg ttaagtcaat gtcggaaaaa aatatcattg catgacatcc cgtgtctaag 120
 tataatcaga gtttttaaaca gatgactgat gagactgata ttgcacaanc cagaaccaag 180
 gggggggggc acctagctgt atagatcgta attgttaggc ggaggaccag ccgaagcaaa 240
 cggatcggat gcagtagtac cagttgtcgt cgactgggat gagaagggga acttggtgcc 300
 gaacccaagg gactgttgga acgtatgggc gaacgcctgg tacttgcgga tataagaatt 360
 aatgacactg tgccgagcat tcttgataga ctgctgtaag tgagct 406

<210> 6995
 <211> 491
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-069-Q1-N6-H10

<400> 6995

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tacatctcat atntaatcta aaaaaaacac cttcaactat nmnttnctnn caanacattt 120
ttggggggggg ggggggggggt tntatngcan caattgttgt tgctgctgca ggaggggagc 180
gaccaatggg ttagccactg ccaatggatt aagtaactgt tgctgctggt gtaggtacgc 240
agcagagttt gacacagcca gttggttgaa tggaagcaac tggtgtaagt aggcagcagg 300
gtttgccaca gctagctgag tcagagctgg tacaatttgt tgcagcaact gttgttgttg 360
gtacgtaggt gcattgcca cgcgagcgg gctatatgaa agtagtttgg ggtagacggc 420
agggttcacc attgggtagt tgactgagca ctggcattaa ctgttgacgc tgttggtgtt 480
gctgggttgc a 491

<210> 6996

<211> 602

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-N6-H11

<400> 6996

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aaaactttat tattgaatta caactaataa gcaatctaaa aagggcacca ccaatgatgt 120
gttggttgga ggaggccgct gggctctgtca aagcaagttg gacaaagggc aacaattgtt 180
ttagggggggg gggggggggcg gggttacccc caaactgctg gtagaaaggc agcaactgtt 240
gctgtgtcaa gaaggaagca cggtttgctg cagctagctg gctaaatggt agtagtattt 300
gctgctgcaa ataagcagcg gggttcagtg cggccaattg gttaaatgga agaagttgtt 360
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cagcagggtt cagtgtagac agttggttga atggaagaaa ttgttgttgc tgagagtagg 480
gagaaagggt tgccagagct acttggttga tcagaggtag cacgagttgc tgcagctgtt 540
gtgccctgat gggttttacc aatgactgca ccaaagatag gggtggcgat tgttgaaaca 600
ac 602

<210> 6997
<211> 564
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-H12

<400> 6997

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aaaagaggca ccaccaatga tgtgttgttg gtaggaggct gctgggtttg tcaaagcaag 120
ttggacaaag ggcaacaatt gttgtagttg gggaagcttg gggggttagc cgcaaactgc 180
tggtagaaag gcagcaactg ttgctgtgtc aagaaggaag cacggcttgc tgcagctagc 240
tggctaaatg gtagtaatat ttgctgtgtc aaataagcag cgaggttcag tgtagacagt 300
tggttgaatg gaagaaattg ttgttgtga gagtagggag aaaggtttgc caaagctact 360
tggttgatca caggtagcac gagttgtgtc agctgtgtg ccctgatggg ttgtaccaat 420
gactgcacca aagatagggc tggcgattgt tgaaacaaca agggtgataa aggtatgttg 480
cttgtctgga ttgcttgttg gagcctatag ggctgaagag ctgggttttc acatactgaa 540
gctatcattg atggaaggta tggg 564

<210> 6998
<211> 551
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-H3

<400> 6998

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ctataactca taagaaacta aaagaggcac caccaatgat gggttgttgg tagaacgtg 120
ctgggtttgt caaagcaagt tggttgaatg gcagcaattg ttgcagttgt aagagggtgc 180
cagcgtagg cgcagcgtgc tggtagaacg gcaacaactg tggttgtatc aagaaggtag 240
cagggtcac accagctagc tggctgaatg gtagtagttg ttgctgtgt aaataagcag 300
gagagttcaa tgctgccagt tggttgaatg gaagaaattg ctgggggtag gcagcaggta 360
gctggctgaa tggtagttgt tgttgttga aataagaagc agagttcaat gcagctagtt 420
ggttgaatgg aagaaactgc tgttgcag agtaggcagc aagggttgct agcacaagtt 480

gtttagtttg ttgtgccctg atgttttgtg ccaataaatg caccaaaggt aactgatgta 540
atagggctga a 551

<210> 6999
<211> 509
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-H4

<400> 6999

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caatcaatat tattgattta ttttttagga aacacatgtt ggtttggggg ccccatgtgc 120
gagtacatct tatatgtaat ttaaaaaatg gggcgcgggg acgatgggtt gctgcaaggg 180
agggttcatc aaagagaact ggttgatgg cagcaattgt tgttgctggt gcaggaaggt 240
agcgaccaat gggtagcca ctgccaatgg gttaagtaac tgttgctgct gtttaggta 300
cccagcaaag tttgacacag ccagttgggt gaatggaagc aactgttgta agtaggcaaa 360
agggtttgcc acagctagct gagtcagagc tggtaacaatt tgttgcaaca actgttggtg 420
taggtaccta ggggcattgc ccaccggaag cgggctatat gaaagtagtt ttaggtagac 480
gggggggttc accatggcta gttgactga 509

<210> 7000
<211> 305
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-069-Q1-N6-H5

<400> 7000

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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt tttttttttt tttttttttt gggggggggg gggttttttt tttttttttt 180
tttttttttt ttttaaaaag tnaaaaaagg ttttttttgt tttggggggg ggttttagta 240
gggaaaaaaa ttttttttat gagattttct ctagaaagat tataaaaggg ggccccccca 300

<210> 7001

<211> 494

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-H8

<400> 7001

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tttttttttt tttttttttt ttgggggggg aaactgaagc accaccaaac caaaactggg 120
atacaceccc cccccacaaa aaaataaacc gtgggggggg ggagcgggaa aacaagcccc 180
tttattataa accttgagaa taaacccttt tttcacaaac ctcaagtaaa ccggcgggtgc 240
atttttcttc tccatggcgg ccccaaaagg ggctttcact ttgcaccaa aattcccaa 300
atcaattggc caggccatgc attactgcca aaaaacaacc taattttggg cttgaaccaa 360
aattctctaa caacaacccc tgtgggtgta aaaaaaaact ctttgtttgg cggaaaaacc 420
aaaaacccca aaacataaga ttgcccacc actgtaaaac catccatttc ttttaaataa 480
acccgacacc tgct 494

<210> 7002

<211> 541

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-069-Q1-N6-H9

<400> 7002

ggtgttgggg gtttttttta tttttttttt tttttttttt ttctttcttt tttttttttt 60
tttttttttt attttttttt tttttttttt tttttttttt ttttttttag aaaggccttt 120
cttatttttg gggcccccca aacattatcg gggggggggg tttttgaact ttaaccata 180
agccatctaa aagggggccc ccccatggt ggggtggggg gggaacactg gtgggtttgt 240
caaaacaagg tggttgaatg gcccattg ttgccgttgt aaaagggggc ccccgttagg 300
catagcgtgc cggtagaacg gcaacaactg ttgttgtgtc aaaaaggcag cagggtcac 360
atcaactagc tggctgaatg ggagtagttg ttgctgctgt aaataagccg caaagttcaa 420

tgctgctagt tggttgaatg gaaaaaattg ctgggggggg gcagcaacta actggctgaa 480
 tgggaattgt tgttgcaaat aagccgcaaa gttcaatgcc cccacttggt tgaatggaaa 540
 a 541

<210> 7003

<211> 502

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-K6-A10

<400> 7003

gcacaacaac tacaacaact tgtgctggcg ggagttgctg cctactctca gcaacagcag 60
 tttcttccat tcaaccaact agctgcattg aactctgctt cttatttgca acaacaâcaa 120
 ctaccattca gccagctatc tgctgcctac cccagcaat ttcttccatt caaccaactg 180
 acagcattga actctcctgc ttatttacag cagcaacaac tactaccatt cagccagcta 240
 gctgggtgtga gccctgctac cttcttgaca caaccacagt tgttgccgtt ctaccagcac 300
 gctgcgcta acgctggcac cctcttacia ctgcaacaat tgctgccatt caaccaactt 360
 gctttgacaa acccagcagc attctaccaa caaccatca ttgggtgtgc cctcttttag 420
 atttcttatg agttatagtt caataataaa gttttttgtc tgatgtttgt ggcttcccag 480
 aaataagaaa gtacatttct ag 502

<210> 7004

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-A12

<400> 7004

tattatnttt ttttnttcc ttnattattt ttttattttt ttttatntta tattattann 60
 ttnnttattt tttttttttt ttttanaaac cccccccccc cccctctttt tttggggcgg 120
 ggnnnnnnnn nnaannnnna antatttttt ttatcaaatt aaataataac atcttatttn 180
 nttttttttt ttaccttttc ttttttattt tacttttttt ttcttttttt tttttttttt 240
 tttatcttat tttatctttt cttttttatc ttattctttt ttttttttta tttttctttt 300

tttttttttt tttttttttt aataacttat tttttttttt tttttttttt tttttttttt 360
 attttttattt ttattttcaat tttttttttt taattttattt ttctatttcc tttttttcac 420
 tttattttta ccttatttat tttttt 446

<210> 7005

<211> 553

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-K6-A2

<400> 7005

tgtaccaaca tggcagccaa atattttgac tccttatgct ccttggctct tctgcaagtg 60
 ctgctacggc gaccattttc ccgcaatgct cgcaagctcc tatagcttcc cttcttcccc 120
 cgtacctctc accagcgggtg tcttcgggtat gtgaaaaccc aattcttcaa ccctacagga 180
 tccaacaggc aatcacagct ggcattctac ctttatcacc cttgttctc caacaatcat 240
 cagccctatt acatcagtta cctttgggtg atttattggc acaaaacatc agggcacaac 300
 aactacaaca acttgtgcta gcaaaccctg ctgectactc tcagcaacag cagtttcttc 360
 cattcaacca actagctgca ttgaactctg cttcttattt gcaacaacaa caactaccat 420
 tcagccagct acctgctgcc tacccccagc aatttcttcc attcaaccaa ctggcagcat 480
 tgaactctcc tgcttattta cagcagcaac aactactacc attcagccag ctagctgggtg 540
 tgagccctgc tac 553

<210> 7006

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-A3

<400> 7006

ttntntcnac cantttcttt ttgttgggtg ggggggnnan nntnncannt ttnttttttt 60
 catttttcat tttttttaaa ttttttttca tcttcttttt ttnttttttt ttctttcttt 120
 tctttttttt ttttatattt ttaattattt tatnttttcc atttattttt ttttttttat 180

tttttatattt tttttntttt tntttttttt ttttttactt tttatattttt tatatttttt 240
 tttttcttct tttntttctt ttttattttt atattttttt ttnntttatt tatcttcttt 300
 ttattttttt tttttttttt tttttttttt ttttttttat tttttttttt tttttttttc 360
 ttcctttctt tttttttttt cttttttttt tttttttttt ttatatattt tttttt 416

<210> 7007
 <211> 580
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-070-Q1-K6-A4

<400> 7007

tccgtagaga caatagcaca tanaagcaca tagtgtacca acaatggcag ccaaaaattt 60
 tgctcctta tgctccttgg tctttctgca agtgctgcta cggcgaccat tttcccgcaa 120
 tgctcgcaag ctctatagc ttcccttctt ccccgctacc tctcaccagc ggtgtcttcg 180
 gtatgtgaaa acccaattct tcaaccctac aggatccaac aggcaatcac agctggcatc 240
 ttacctttat cacccttggt cctccaacaa tcatcagccc tattacatca gttacctttg 300
 gtgcatttat tggcacaaaa catcagggga caacaactac aacaacttgt gctagcaaac 360
 cttgctgctt actctcagca acagcagttt cttccattca accaactagc tgcattgaac 420
 tctgcttctt atttgcaaca acaacaacta ccattcagcc agctacctgc tgcctacccc 480
 cagcaatttc ttccattcaa ccaactggga gcattgaact ctctgctta tttacagcag 540
 caacaactac taccattcag ccagctagct ggtgtgagcc 580

<210> 7008
 <211> 564
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-070-Q1-K6-A6

<400> 7008

natgnaaaca acagcacata gaaggggggg cgagtagcaa aaatagacaa caatggcggc 60
 caagaaattt tccatcctta tgctccttgc tctttctgca tgtgttgcta acgcgaccat 120

ttttctcaa tactcacaag ctcttatagc tgcccttctt ccccatacc ttccatcaat 180
 gaccgcttta gtatgtgaaa acccagccct tcaaccctac aggatccagc aagcaatcgc 240
 aacaagcaac ttacctttat cacacctgtt ctttcaacaa tcgccagccc tatctttggt 300
 gcagtcattg gtacaaacca tcagggcaga acagttgcag caactcgtgc taccagtgat 360
 cagccaagta gctctggcaa acctttcccc ctactctcag caacaacaat ttcttccatt 420
 caaccaactg tctatactga accctgctgc ttatttgcag caacaacaac tactaccatt 480
 cagccagcta gctactgcct actctcagca gcaacaattt cttccattta accaattggc 540
 cgcactgaac ccctctgctt attt 564

<210> 7009
 <211> 580
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-070-Q1-K6-A7

<400> 7009
 tnacaacata gnaagacaca tagtgtacca acaatggcag ccaaaaattt tgccctccta 60
 tgctccttgg tatttctgca agtgctgcta cggcgaccat tttcccgcaa tgctcacaag 120
 ctcttatagc ttcccttctt ccccgctacc tctcaccagc ggtgtcttcg gtatgtgaaa 180
 acccaattct tcaaccctac aggatccaac aggcaatcgc agctggcatc ttacctttat 240
 cacccttggt cctccaacaa tcacagccc tattacagca gttacctttg gtgcatttat 300
 tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcct 360
 actctcagca acagcagttt cttccattca accaactagc tgcattgaac tctgcttctt 420
 atttgcaaca acaacaacta ccattcagcc agctacctgt tgctacccc caacaatttc 480
 ttccattcaa ccaactggca gcattgaact ctctgctta ttacagcag caacaactac 540
 taccattcag ccagctagct ggtgtgagcc ctgctacctt 580

<210> 7010
 <211> 573
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-A8

<400> 7010

taaaattaat taaaagtagt ttatgggggg gaggggtgtgt ncgataaata tgtatgccat 60
tgtgtgatat ggcataagtt agaattaagg cgagtatgta ttgtattatg aaactaatta 120
gagatatgca tgatgcttgt aagtggattg tacgcagagt actttggtaa gggatatttct 180
caagtataaa tgatttggtt attgtatatg aattgagtga tcaagttaat aatgtaaaaa 240
caacgttttag tacttatagc gctttgccga caagatttat tgggtggttga gtgaatttct 300
aatgtatggg gacatgaatg ccttggttga ttatgtgggt ttagttctac taaagataaa 360
gtgttgagtg ttctaaatgt taaaagcatg ataagtgtag aagttaaata agatctaagt 420
tagagttctt gctgtttgga ctgcatgtcc aattttatta cgtggctagt taagtaaagt 480
aaaccgtgtt ttctgtagaa atgttatata taaaacttgt agataatctt tttatcttgc 540
ttgtgtaaaa atttcatgac cataggttca gta 573

<210> 7011

<211> 570

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-A9

<400> 7011

tgattgaaac catagcaaca tanaagcaca gtagtgtacc aacaatggca gccaaaattt 60
ttgcctcctt atgctccttg gtctttctgc aagtgtgtct acggcgacca ttttcccgca 120
atgctcgcaa gctcctatag ctcccttct tccccgtac ctctcaccag cgggtgtctc 180
ggatgtgaa aacccaattc ttcaacccta caggatccaa caggcaatca cagctggcat 240
cttaccttta tcacccttgt tctccaaca atcatcagcc ctattacatc agttaccttt 300
gggtgcattha ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa 360
ccttgctgcc tactctcagc aacagcagtt tcttcattc aaccaactag ctgcattgaa 420
ctctgcttct tatttgcaac aacaacaact accattcagc cagctacctg ctgcctaccc 480
ccagcaattt ctccattca accaactggc agcattgaac tctcctgctt atttacagca 540
gcaacaacta ctaccattca gccagctagt 570

<210> 7012
 <211> 522
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-070-Q1-K6-B1

<400> 7012

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 acaagcggcg gctgcggctg ccagccaccg ccgccgggtc atctaccgc gccggtgcat 120
 ctgccacctc cggttcacct ggcgacctcc ggtgcatttc ccaccgccg tccacctgcc 180
 gccgccggtc cacctgccac cgccgggtcca tgtgccgccg ccggttcatt tgcgcgcgcc 240
 accatgccac taccctactc aaccgccccg gctcagcct catccccagc cacacccatg 300
 cccgtgccaa cagccgcatt caagcccgtg ccagctgcag ggaacctgcg gcgttggcag 360
 caccgccatc ctgggccagt gcgtcgagtt tctgaggcat cagtgcagcc cgacggcgac 420
 gccctactgc tcgctcagt gccagtcgtt gcggcagcag tgttgccagc agctcaagca 480
 ggtggagccg naggaccggt accaggcgat cttcggcttg gt 522

<210> 7013
 <211> 576
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-070-Q1-K6-B11

<400> 7013

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 cttggtcttt ctgcaagtgc tgctacggcg accattttcc cgcaatgctc gcaagctcct 120
 atagcttccc ttcttcccc gtacctctca ccagcgggtg cttcgggtatg ggaggggcca 180
 attcttcaac cctacaggat ccaacaggca atcgcagctg gcattctacc tttatcacc 240
 ttgttctctc aacaatcatt agccctatta caacagttac ctttggtgca tttattggca 300
 caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc tgcctactct 360
 cagcaacagc agtttcttcc attcaacaa ctaggttcat tgaactctgc ttcttatttg 420

caacaacaac aactaccatt cagccagcta cctgctgcct acccccagca atttcttcca 480
 ttcaaccaac tagcagcatt gaactctcct gcttatttac agcagcaaca actactacca 540
 ttcagccagc tagctggtgt gagccctgct accttc 576

<210> 7014
 <211> 587
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-070-Q1-K6-B12

<400> 7014

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 acgtctctcc cgccgccagc gccgtggcca acggcatggt gatggagccg aggttccgcg 120
 gcgctcggaa gcgcccgtgg ggcaggttcg cggcggagat ccgggacccg ggcgttagat 180
 cgggcgtgtg gctcngcacc ttcnacaccg cctaggccgc ggggcgcgcc tacgacgccg 240
 ccgcgtctca cttccgcggg cccaaggcca agaccaactt ccccgtcgcg ttcgccgcgc 300
 ttccgcgcgc gccgcgcgcc aagaagccgg ccgcctgac cgtgagcccc agcagcagca 360
 gcaccgtgga gtctctctcc tctcctcct cccgggactc gcccgccacg ccgcccaggg 420
 ccgcgtctcc gtcccagcag gcccgcgcgc tcgacctcag cctaggcggc acaccggcca 480
 tgggtggcgc ccagccgttc ctcttcttgg acccgaggct cgcggtgacc gtggccgtgc 540
 cggcgcccgt gccctaccgg ccgaccgcgg tcgccgccgg tgccaac 587

<210> 7015
 <211> 579
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-070-Q1-K6-B2

<400> 7015

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 aaagaaggag catccgacag gcaccagaga ccacagatga aatgcggcag agtccataga 120
 ccagctggaa atatttgatc acattagaga tataaaggat ccagagcacc catactcact 180

ggaacagctg aatgtggtga ctgaagactc aattgaactc aatgatgaaa gcaatcatgt 240
caggggttatt ttcaccccaa cagtggagca ctgcagtatg gcaactatta ttggcctttg 300
catacgggtg aaacttgtag ggagtctccc tccttattac aaggtggaca taaggggttg 360
ccctggatca cacgcaactg aagctgctgt gaataagcaa ctgaatgaca aagaacgtgt 420
tgcggctgca ttggaaaacc caaacctact ggacatgggt gaagagtgtg tatcaccaac 480
attcgattga ggtctcagtt gttgcacatc tgggagccat ggtgtttcat gttcagaagc 540
cacacaagct tattgccata ggaattcact cctgaatat 579

<210> 7016

<211> 589

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-B4

<400> 7016

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acggtgttct agaagagcac cagctaggga gcagaataat gaacatactc agagttagca 120
gcttcatggt tctgcaagtg agcagcaagc tagagagcaa cttcatgggt ctgtaagtaa 180
acagcaaact gaagttcttc gctccaatgt cagcagtggc gatgcctcaa aatgtcattt 240
tggccctata gttactcaga agctgaagga acattttgaa aaagatccat atccttgccg 300
tgcaacaaaa gagggctctg cacaagagct aggactgaca tttaatcaga tcagtaagtg 360
gttctctgcc acccatcatt attcaagaga tgctgttgcc aagaacaaa aataccagg 420
agaaaatact actgagaata atagtagcac aatctttgat ggtatacaag taatagaacc 480
caattttggt ttgatagata aaccagatgc agatacaaat gacatgattt ctgaaaagtt 540
gatggtacaa attaatctta acgaaggcat tgaagaggat atcccaccg 589

<210> 7017

<211> 576

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-B5

<400> 7017

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agttgcttgc atcaaaccga cttgctctgg caaacgtagt tgcaaaccag ccacaacaac 120
agctgcaaca gtttctgcca gcgctcagtc aactagccat ggtgaaccct gccgcctacc 180
tacaacagca acaactgctt tcatctagcc cgctcgctgt ggccaatgca cctacatacc 240
tgcaacaaca attgttgcaa cagattgtac cagctctgac tcagctagtt gtggcaaacc 300
ctgctgccta cttgcaacag ctgcttccat tcaaccaact gactatgtcg aactctgctg 360
cgtacctaca acagcgacaa cagttactta atccactagc agtggctaac ccattggtcg 420
ctgccttcct acagcagcaa caattgctgc catacaacca gttctctttg ataaaccctg 480
tcttgctgag gcagcaaccc atcgttggag gtgccatctt ttagattaca tatgagatgt 540
actcgataat ggtgcctca ttccggcatg tgtttc 576

<210> 7018

<211> 588

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-K6-B6

<400> 7018

gttggtttct cctccccctc cgttccgggt tcgggttcgt gaggttctcc ggggttcggt 60
ttcgtgggtg agcggatcga gatggcgggc tcggatgttg agtaccgctg cttcgtcggc 120
ggcctcgctt gggccacgga cgaccactcc ctccacaacg cttcagcac ctacggcgag 180
gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggttc 240
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ctggacggcc gcaacatcac cgtcaacgag gccagtcctc gcggcgggcg tggaggcggc 360
ggcgggcgcg ggtacggtg tggccgtgga ggcgggcgct acggcggttg cgggcgccgt 420
gatggcgggc gcggctacgg cgggtggcgg ggctacggtg gtggcgggcg cggctacggt 480
ggtggtggcg gcggctacgg cgggtggcaac cgtggcgggc gctacggcaa ctccgacggg 540
aactggagga actgagcggg ggggcccgcg cggccaagtt atcctgtt 588

<210> 7019
<211> 573
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-070-Q1-K6-B7

<400> 7019

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gaagaagaga gcagaggagg atggctcgta cgaagcagac cgcccgaag tccacgggag 120
gcaaggcccc ccgcaagcag ctcgccacca agggggcgag gaagtcggcg ccgacgaccg 180
gcggtcgta gaagccccac aggtacaggc ccggaaccgt ggcgctgcgc gagatccgca 240
agtaccagaa gagcacggag ctgctgatcc gcaagctgcc cttccagcgc ctggtgcgcg 300
agatcgcgca ggacttcaag acagacctcc ggttccagag ccacgccgtg ctggcgctcc 360
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acgccaagcg cgtcaccatc atgccaagg acatccagct cgcccgcgcg atccgtggcg 480
agcgcgcgta gccatcatct ccgaggatct gatgaatgtc tagttaccaa acaaataggc 540
cgtattagcg tcgttggtct gtattcgta ttt 573

<210> 7020
<211> 581
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-070-Q1-K6-B8

<400> 7020

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gcctactctc agcaacagca gttacctttg gtgcatttgt tggcacaaaa catcagggca 120
caacaactac aacaactcgt gctagcaaac cttgctgcct actctcagca acaacagttt 180
ctgccattca accaactagc tgcatgaac tctgctgctt atttgcagca acaacaacta 240
ctaccattca gccagctagc tgctgcctac ccccggaat ttcttcatt caaccaactg 300
gcagcattga actctcatgc ttatgtacaa caacaacaac tactaccatt cagccagcta 360
gctgctgtga gccctgctgc cttcttgaca cagcaacatt tgttgccgtt ctacctgcac 420

actgcgcta acgttggcac cctcttaca ctgcaacaat tgctgccatt cgaccaactt 480
gctttgacaa acccagcagt gttctaccaa caacccatca ttgggtggtgc cctcttttag 540
attgcttatg agttatagtt caataataaa gttttttttg c 581

<210> 7021

<211> 550

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-C1

<400> 7021

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aagatttttc cctccttatg ctccctgctc tttctgcatg tggtgctaac gcgacaattt 120
tccctcaatg ctcaaacgt cctatagctt cccttcttcc cccatacctt ccatcaatga 180
tagcttcagt atgtgaaaaa cccagctctt cagccctata ggctccaaca agcaatcgca 240
gcaagcaaca tacctttatc acccttggtg tttcaacaat cgccagccct atctttggtg 300
cagtcattgg taaaacccat cagggcacag cagctgcagc aactcgtgct acctgtgatc 360
aaccaagtag ctctggcaaa cctttctccc tactctcagc aacaacaatt tcttccattc 420
aaccaactgt ctacactgaa cctgtctgct tatttgcagc aacaactatt accattcagc 480
cagctagcta ctgcctactc tcagcaacaa caacttcttc catttaacca attggccgca 540
ctgaaccccg 550

<210> 7022

<211> 571

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-C11

<400> 7022

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atgaggggtgt tgctcgttgc cctcgtctc ctggctctcg ctgcgagcgc cacctccacg 120
catacaagcg gcggctgcgg ctgccagcca ccgccgccgg ttcattctacc gccgccgggg 180

cgatctgccca cctccggttc acctgccacc tccggtgcat ctcccaccgc cgggccacct 240
 gccgccgccg gtccacctgc caccgccggt ccatgtgccg ccgccggttc atctgccgcc 300
 gccaccatgc cactacccta ctcaaccgcc cgggcctcag cctcatcccc agccacaccc 360
 atgcccgtgc caacagccgc atccaagccc gtgccagctg cagggaacct gcggcgttgg 420
 cagcaccceg atcctggggc agtgcgctga gtttctgagg catcagtga gcccgacggc 480
 gacgccctac tgctgcctc agtgccagtc gttgcggcag cagtgttgcc agcagctcag 540
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<210> 7023

<211> 585

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-C12

<400> 7023

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 ctgggttaac aaactgtttt gccagtagtg ttggttcctc gatgccttgc aataagatct 120
 ctogaagctc atttcctttt gctgacagtt tgttgttttt tacatcgatc cgtgggggga 180
 ggggcttcta attttgcatg gtttactggt ctgctaataa aatgcaattc aatcttgaag 240
 aattgggttaa aaagtggatg ccattgaata tcattcaatt tcttccaaag gatttggaat 300
 gttgagttga gagtatcatg tggcagtttg atgttacaga ttttcttcag tgtggtacag 360
 gaaaataaaa aagtttggtt aaacgcgatt tgtaatgaac tcatttggtt gtcttataag 420
 tcgacaaacg aactgaatta gttttgataa cagtagcata tagttgtcat tatttattag 480
 taaaccgagt tttcttttta ggaggctgtc catgggtatgt gttttaactt ctattctctt 540
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<210> 7024

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-K6-C2

<400> 7024

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ctgatttgct ccagcgccat gtgggtggta catttgaacc aggctcaacg catactgtag 120
acaatgagat aacgtaggat gaatgctgta tttgacatac tttgcagctt gtttatgtga 180
tgcacgttct tgcggac 197

<210> 7025

<211> 579

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-C3

<400> 7025

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ccgagnacat cttcaaggga tgcagcccg gttcctgagc gaagccctgg gcgtcagcat 120
gcacgtcgcc gagaagctgc agagccggcg tgaccagcga ggcgagatcg tccgcgtgga 180
gccggagcac ggctttcacc agctgaatcc gtcgccgtcg tcgtcgtcgt tttcgttccc 240
atcgtcacaa gtccagtacc aaacgtgcc a gcgcgacgtc gacaggcaca acgtctgcgc 300
catggagggtg aggcacagcg tcgaacggct ggaccaggcc gacgtctaca gccctggggc 360
tgggaggatc acacgcctca ccagccacaa gttccccgtc ctcaacctcg tacagatgag 420
cgcggtgctg gtagacctgt accaggacgc catcatgtcg ccgttctgga acttcaacgc 480
ccacagcgcc atgtacggca tcaggggcag tgcaagggtc caggtcgcca gcgacaacgg 540
gaccacggtg ttcgacgacg tgctccgtgc ggggcagct 579

<210> 7026

<211> 546

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-C4

<400> 7026

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ctccggtgac agccgcggga tttcaatacc caactatata atcctacatg gtacaagagg 180
ccatccaagc aagcatctta cggtcattag cattaaccct ccaacaacca tatgctctat 240
tgcaacagcc atccttagtg catctgtatc tccaaagaat cgcggcaca caactacaac 300
aacagttgct accaacaatc aatcaagtag ttgcagcgaa ccttgctgct tacctccagc 360
aacaacagtt tcttccattc aatcaactag ctggggtgaa ccctgctatc tacttgcagg 420
cacaacagct actaccattht aaccaacttg tggggagccc ttatgccttc ttactgcaac 480
aacagcttct gccattccat ctgcaagctg tggcaaacad tgttgctttc ttgagacaac 540
aacatt 546

<210> 7027
<211> 580
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-070-Q1-K6-C5
<400> 7027

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tcagcaacaa caacttcttc catttaacca attggccgca ctgaaccccg ctgcttattt 120
gcagcagcaa atactactac catttagcca gctagctgca gcaaaccgtg cttccttctt 180
gacacagcaa cagttgctgc ctttctacca gcagtttgcg gctaaccccg caaccctctt 240
acaactacaa caattgttgc ctttgtcca acttgctttg acagaccgag cggcctccta 300
ccaacaacac atcattgggtg gtgccctctt ttagattgct tattagttgt aattcaataa 360
taaagttttt tggatgatgt atgtggccaa ccagaaataa gaagttacat ttccagattt 420
taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aattttttaa aaaaaaaaaa 540
nggggggggc ctttttaag gacccaatt ttccccccc 580

<210> 7028
<211> 583
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-070-Q1-K6-C6

<400> 7028

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ttgctcctt atgctccttg gtctttctgc aagtgtgct acggcgacca ttttcccaca 120
atgctcacia gctcctatag ctcccttct tccccgtac ctctcacaa cgggtgtcttc 180
ggatatgtgaa aacccaattc ttcaacccta caggatccaa caggcaatcg cagctggcat 240
cttaccttta tcaccttgt tctccaaca atcatcagcc ctattacagc agttaccttt 300
gggtgcattta ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa 360
ccttgctgcc tactctcagc aacagcagtt tcttccattc aaccaactag ctgcattgaa 420
ctctgcttct tatttgcaac aacaacaact accattcagc cagctatctg ctgcctaccc 480
ccagcaattt ctccattca accaactgac agcattgaac tctcctgctt atttacagca 540
gcaacaacta ctaccattca gccagctagc tgggtgtgagc cct 583

<210> 7029
<211> 559
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-070-Q1-K6-C7

<400> 7029

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ttgcgcttct tgccctttta gtgagcgcaa caaatgcgtt cattattcca cagtgtcac 120
ttgtccttag tgccattatt ccacagttcc tcccaccagt tacttcaatg ggcttcgaac 180
atccagccgt gcaagcctac aggctacaac tagcgcttgc ggcgagcgcc ttacaacaac 240
caattgcca attgcaacaa caatccttgg cacatctaac cctacaaacc attgcaacgc 300
aacaacaaca acaacaacag tttctgccat cactgagcca cctagccgtg gtgaacctg 360
tcacctactt gcaacagcag ctgcttgcac ccaaccact tgctctggcg aacgtagctg 420
cataccagca acaacaacag ctgcaacagt ttatgccagt gctcagtcaa ctagccatgg 480
tgaacctgc cgtctaccta caactacttt catctagccc gctcgcggtg ggcaatgcac 540

ctacgtacct acaacaaca

559

<210> 7030

<211> 573

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-C8

<400> 7030

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aatgttcggc cggggaaga catcaccaca agctatcctt gatctcatca ccattgggaa 120

gataataaag aaagtccta ttgtggcgg caactgcaca ggatttgcag tcaaccgtga 180

cattttttcc ttacacacag ggttctcatc ttctagttag tcttggtatt gatgttttca 240

gaattgatcg agtaataagc acctttggca tgccaatggg accttttcaa ctccaagatg 300

tggctgggta tggagttgcc ttggcagtaa aggatatcta cgctgatgcc tttggagaaa 360

gaaatttgga ctctgacctt gtggatttga tggtaaagga tggacgacaa ggaaaggatga 420

acggcaaagg ttactacatt tatgagaagg gtgggaagcc aaagccagat cctagtgtta 480

agcatgttat cgaggagtac cgaaagcacg caaacacaat gcctgggtgga aagcctgtta 540

ctttaacgga tcaagatatt ttggagatga ttt 573

<210> 7031

<211> 584

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-K6-C9

<400> 7031

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agggataaca tcgggggatc tgcctatggc ggacagaggt ccatatgttg taccacagat 120

cttgctaaac tagagggtg caagcaaggg gaagtaatca ggaggccatc ctctgatgag 180

ccagattggc ccttcgtgct agacacacac ttcagtgtta atcaccttct agtgaagtta 240

gaagatgagc cagtgcgcat tacaaagaca ggcattgtaca acttggttct catatcctgt 300

gatccaaaac tgagaggcct tactatgagt ggcaagacta tctggaagaa tcttgggtggg 360
tatctaccgg gacgaatggc gcctttgatg aaattttatg ttctcatgtc gctggcggtat 420
ctgttggttaa tgattgtttg gtttagccag tacgtaaggt tctggaggga tatattgcca 480
atacagaatt ggatcactct aatcattgca cttgggtctgt ttgagatgac actatggtac 540
tttgagtact tgaacttcaa cagcagtggt gtgaggccag ttgg 584

<210> 7032

<211> 565

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-D1

<400> 7032

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ccctctcttc ctctctgctt tccccttcca atggaatcct gtagcttccg tgccgcaacc 120
gcgccttctc ctttccctc cgctccttct tcattctcat ccccgcgcg cccatgccc 180
atactccgat ttcccaggcc aagaaaaggg aggcagattg ggggtgcggag gagggcgtcc 240
ggatttgatg ctttcgctc tttcgccggc aaggtcttcg tggatgaggc gattggagcg 300
gaatatgggg agggcttcga aacatttcga atggatggac cactcaaggt tgatgtggat 360
tatctgaatg aaaaattgca agagtgttc cttcaaagga taaggcatgc tatgaagccg 420
gatgaggcgt ttggtctaatt ttttctgtgg gacaatgtta ttgctgatac agactcncta 480
aagttgaatg cttggagaca acttgctttg gaggaaggta aggatatccc aagtgggtgct 540
catgtccgga agagcattat tcatg 565

<210> 7033

<211> 575

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-D10

<400> 7033

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attgatgccc ctggacaccg tgacttcac c aagaacatga tcactgggtac ctcccaggct 120
gactgtgctg tccttatcat tgactccacc actggtgggt ttgaggctgg tatctccaag 180
gatggccaga cccgtgaaca tgctctcctt gcgttcaccc ttggagtga gcagatgatt 240
tgctgctgca acaagatgga tgcaaccact cccaaatact ccaaggcacg ttatgaagag 300
attgtgaagg aagtctcatc ctacctcaag aaagttgggt acaaccctga taagattgcc 360
tttgttccca tttctggttt tgaggggcag aacatgattg agagggtccac caaccttgac 420
tggtacaaag gccaaccct gcttgagggt cttgaccaga tcaccgagcc caagaggcct 480
tcagacaagc cctgcgtct gcccctccag gatgtgtaca agattggtgg tattggaact 540
gtaccggttg gtcgtgtgga gactgggtgc atcaa 575

<210> 7034

<211> 66

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-D11

<400> 7034

aaaaaaaaa aaaaanaaaa aaannaaaaa aaaaaaaaaa aaaaaaaaaa aaaggggaag 60

ggggggg 66

<210> 7035

<211> 598

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-D12

<400> 7035

gcgttcggtt ctagnacgcg ggcggccgcc ctgggggggg gggttttttt agtcatagaa 60

tcacttatgt catagaacta attctcacga agaatcagaa taagatagaa cttaccaaac 120

cgacccttac atacactgat gctgacacat acaaacagac acacgcacta tactgagaga 180

cacagggggg ggggcacaca catacgacca taatatatag gaggcataca cactaaaacg 240

aacacatgac atacaggaaa ttaaactaag tttaaattgc ttattttcca cgagacgaaa 300

cacgagcacg gaaaatggca agacaagaga gcgacaccac caaacatgca tgcattgggta 360
 tgctagttca catgacactg cacgagggcc cgccgccctg cctgggttgg tgggtggggc 420
 ggccatgctg ctgctgctgc gcgcgctggc agtcggcgtc ggcgtcgcc tccgtgccga 480
 tggaacagcc aggtctgcac tggtcgccac cagcgtcggc gtaggcggta gcatcggctt 540
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<210> 7036

<211> 588

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-D2

<400> 7036

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 gctcctatag cttcccttct tccccgtac ctctcaccag cgggtgtctt ggtatgtgaa 180
 aaccaattc ttcaacccta caggatccaa caggcaatcg cagctggcat cttaccttta 240
 tcacccttgt tcctccaaca atcatcagcc ctattacaac agttacctt ggtgcattta 300
 ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360
 tactctcagc aacagcagtt tcttccattc aaccaactag gttcattgaa ctctgcttct 420
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 cttccattca accaactagc agcattgaac tctcctgctt atttacagca gcaacaacta 540
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<210> 7037

<211> 578

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-D3

<400> 7037

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cttatgctcc ttggtctttc tgcaagtgtc gctacggcga ccattttccc acaatgctca 120
 caagctccta tagcttccct tcttcccccg tacctctcac cagcgggtgtc ttcgggtatgt 180
 ggaaaaccca attcttcaac cctataggat ccaacaggca atcgagctg gcatcttacc 240
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 tttattggca caaaacatca gggcacaaca actacaaca cttgtgctag caaaccttgc 360
 tgctactct cagcaacaac agtttcttcc attcaaccaa ctagctgcat tgaactctgc 420
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 attctaccaa caacccatca ttggtggtgc cctcttttag atttcttatg agttatagtt 540
 caataataaa gttttttgtc tgatgtttgt ggcttccc 578

<210> 7038
 <211> 507
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-070-Q1-K6-D4

 <400> 7038

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 gtctttgggtg gggggggagg caattcttca accctatagg atccaacagg caatcgtaga 180
 tggaatatta cctttatcac cattgttact ccaacaataa ttagccctat tacagcagtt 240
 acctttgggtg catttatttg cacaaaacat aagggtacaa caactacaac aacttggtgc 300
 agcaaaccctt gttgactact attagcaaca acagtttatt ccattcaacc aantaaatgc 360
 atttaactat ttttattatt tgcaacaaca attgttgaca ttaaaccaaa ttgatttgac 420
 aaaccaata gtattatacc aacaacccat cattgatggg gccctttttt agatttttta 480
 tgaattatag ttcaataata aaatttt 507

<210> 7039
 <211> 191
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> . Clone ID: LIB3061-070-Q1-K6-D7

<400> 7039

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agaaaaacaa ggggaccaa agcttgggat ggagaggaaa aaagagtga ggaatgtata 120
gtaaaaacga caattgagaa taaaagtaca aaagttccga gaaagaccta ggtataagaa 180
aaacctaaac a 191

<210> 7040

<211> 589

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-D8

<400> 7040

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ctcaatgctc acaagctcct atagcttccc ttcttcccc atacctcca tcaatgatag 180
cttcnagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgagca 240
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ctatctacac tgaacctgc tgcttatttg cagcaacaac tattaccatt cagccagcta 480
gctactgctt actctcatca acaacaactt cttccattta accaattggc cgactgaac 540
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<210> 7041

<211> 592

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-D9

<400> 7041

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 tgctcacttg ctccaagtgc cattattaca cagttcctcc caccagttac ttcaatgggc 180
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 gcaacgcaac agcaacaaca attcctacca gcaactgagcc acctagccat ggtgaaccct 360
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 gcaaaccagc cacaacaaca gctgcaacag tttctgccag cgctcagtca actagccatg 480
 gtgaaccctg ccgcctacct acaacagcaa caactgcttt catctagccc gctcgtctgtg 540
 gccaatgcac ctacatacct gcaacaacaa ttgttgcaac agattgtacc ag 592

<210> 7042

<211> 591

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-K6-E1

<400> 7042

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 ttctgcaagt gctgctacgg cgaccatttt cccgcaatgc tcgcaagctc ctatagcttc 120
 cctttcttccc ccgtacctct caccagcggg gtcttcggta tgtgaaaacc caattcttca 180
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 cagggcacaa caactacaac aacttggtgct agcaaaccctt gctgcctact ctcagcaaca 360
 gcagttttctt ccattcaacc aactaggttc attgaactct gcttcttatt tgcaacaaca 420
 acaactacca ttcagccagc tacctgctgc ctacccccag caatttcttc cattcaacca 480
 actagcagca ttgaactctc ctgcttattt acagcagcaa caactactac cattcagcca 540
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<210> 7043

<211> 493

<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-070-Q1-K6-E10

<400> 7043

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 ggacgcacgg tcggtgcgga tcaagcgggc caaggacgcc gtcaagttca aggtgcgctg 180
 ctccaggtac ctctacaccc tctgcgtcca cgacgccgac aaggccaaca agctcaagca 240
 gtcgctcccg ccaggtctga ctgtccagga gatttaaggt atcaagccac aaactgtgct 300
 ttttttgcgg tgtcagggac gtttgctcca gtgttacttt agtttgtagg tgggctccat 360
 tgctgtgttt gaatgaatta tgaagtttga gtttgggatg cgaatgatgt gtcgaacct 420
 tgagcctgtg ttgtaatggt taccocagac cgcaaaggat ggcaatctat cataagttaa 480
 actgatttcc gtg 493

<210> 7044
 <211> 558
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-070-Q1-K6-E11

<400> 7044

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 acaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtg gtgggggggg 180
 ggaaaaccca attcttcaac cctataggat ccaacaggca atcgagctg gcatcttacc 240
 tttatcacc ttgttctcc aacaatcctc agccctatta cagcagttac ctttggtgca 300
 tttattggca caaaacatca gggcacaaca actacaaca cttgtgctag caaaccttgc 360
 tgectactct cagcaacaac agtttcttcc attcaaccaa ctagctgcat tgaactctgc 420
 ttcttatttg caacaacaac aactaccatt cagccagcta tctgctgcct acccccagca 480
 atttcttcca ttcaaccaac tgacagcttt gaactctcct gcttatttac agcagcaaca 540

actactacca ttcagcca

558

<210> 7045

<211> 576

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-E12

<400> 7045

agcgtccggc acatanaagc acaatatgta cgaggggggg ggccaaaaat ttgctcct 60
tatgctcctt ggtctttctg caagtgtgc tacggcgacc atttcccg aatgctcgca 120
agctcctata gcttcccttc tttccccgta cctctcacca gcggtgtctt cggtatggga 180
gggggggggt cttcaaccct acaggatcca acaggcaatc acagctggca tcttaccttt 240
atcacccttg ttctccaac aatcatcagc cctattacat cagttacctt tgggtgattt 300
attggcacia aacatcaggg cacaacaact acaacaactt gtgctagcaa acctgtgtgc 360
ctactctcag caacagcagt ttcttccatt caaccaacta gctgcattga actctgcttc 420
ttatttgcaa caacaacaac taccattcag ccagctacct gctgcctacc cccagcaatt 480
tcttccattc aaccaacttg ctttgacaaa cccaacagca ttctaccaac aacctatcat 540
tgggtggtgcc ctcttttaga tttcttatga gttata 576

<210> 7046

<211> 577

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-E3

<400> 7046

gggtccacca ttccgtgcaa tcattttgaa acgctttaac agtgcgcatt gttaccttgn 60
ncaaaacaca tctnacgaag ggaaaatgaa accctgatgg ccattggaac tgcttatgtt 120
caaggggagg atgttgctgc tagaggacgg gtgcttctgt tctctttcag taaaagtga 180
aattctcaaa atctgggttac cgaagtctac tcaaaagaga gcaaagggtgc tgtatctgct 240
gttgccgctc ttcaagggtca tctactgata gcttctggtc ctaagatcac actgaataaa 300

tggactggct ctgaattgac tgccgttgca ttctatgatg caccattgca tgttgtgagc 360
ctgaacattg tgaaaaactt tgttttatctt ggtgatattc acaaaagcat atattttctt 420
agttggaagg aacaagggtc tcaattgagt ctgctggcaa aagattttgg ttcacttgat 480
tgttttgcaa ctgagttctt aattgatgga agcaccttga gccttgtagt ttcagattct 540
gacaagaacg tgcagatttt ctattatgcc cccaaaa 577

<210> 7047

<211> 560

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-E5

<400> 7047

gcattcagna aacacaccaa gcgaacgcac tagcaacgac ctaacaacaa tggctaccaa 60
gnaattagcc ctcttgcgc ttcttgccct ttttgtgagc gcaacaaatg cgttcattat 120
tccacaatgc tcaattgctc ctagtgccat tattccacag ttctctccac cagttacttc 180
aatgggcttc gaacacctag ctgtgcaagc caacatgcaa caacaagcgc ttgcggcgag 240
cgtcttataa caaccaattg cccaattgca acaacaatcc ttgccacatc taacaatata 300
agccatcaca acgcaacagc aacaacagtt cctaccagca ctgagccacc tagccatggt 360
gaaccctgcc gcctacttgc aagagcagct gcttgcatcc aaccacttg ctctggcgaa 420
cgtagttgca aaccagcaac aacaacagct acaacagttt ctgccaacgc tcagtcaact 480
agccatggtg aaccctgccg cctacgtaca acaacaacaa ctgctttcat ctagcccgct 540
cgctgtgggc aatgcaccta 560

<210> 7048

<211> 575

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-E6

<400> 7048

gncccttcca ccaccttгна agtgtctact gtcctgncgg cgctgcactg atctatcatc 60

atcaggcgga ggcgatgcga tgatgatgca gaactttgta catgcgttgg tggatggtgg 120
 tgtaacatag tggctgcaa caagtcatgc tcatgcaaac cgatgaatct atctctgtat 180
 catcgatctc ggttggtatg tacatccgac tgcagacgtg ggggtgtatac tatataggct 240
 ggcgctaata aatgctaata taaaccgaat attctatggt tgcatgatga atgccaatta 300
 tttgttaaata cagactgcaa acaacaatct ttttatattg ctgggtgctaa taaataggag 360
 tataatcgtc atatacgaac ggttgcggtg ggaatgcaa tcatgtgtgt aatctgttgg 420
 caaataacaa acctctgttc ctcccaaaaa aagggggggc ttttaaaaa accaaatatt 480
 acttccccctt gcttgaaaat taaaaacttt ttttataggg gaccctaaat aaaattaatt 540
 ggccccgggtt ttaaaagggg gggcctttta aaaac 575

<210> 7049
 <211> 560
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-070-Q1-K6-E8
 <400> 7049

nagctectat agcttccctt cttccccgg cctctcacac ggtgtcttcg gtatggtgaa 60
 aaccaattc ttcaacccta caggatcaa caggcaatcg cagctggcat cttaccttta 120
 tcacccttgt tctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 180
 ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 240
 tactctcagc aacagcagtt tcttccattc aaccaactag ctgcattgaa ctctgcttct 300
 tatttgcaac aacaacaact accattcagc cagctatctg ctgcctaccc ccagcaattt 360
 cttccattca accaactgac agcattgaac tctcctgctt atttacagca gcaacaacta 420
 ctaccattca gccagctagc tgggtgtgagc cctgctacct tcttgacaca accacagttg 480
 ttgcggttct accagcacgc tgcgcctaac gctggcaccc tcttacaact gcaacaattg 540
 ctgccattca accaacttgc 560

<210> 7050
 <211> 566
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-070-Q1-K6-E9

<400> 7050

aattgtcacc ctacagnacc aacggcaatc gcaacagcat cttaccatta tcacccttgt 60
tcctccaaca accgtcagcc ctattacagc agttaccttt ggtccatttg gtggcacaaa 120
acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgca tactctcagc 180
aacatcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct tatttgcaac 240
aacaattacc attcagccag ctagttgctg cctaccccca gcaatttctt ccattcaacc 300
aactagcagc attgaactct gctgcttatt tacagcagca acaactacta ccattcagcc 360
agctagctga tgtgagccct gctgccttct tgacacaaca acagttgttg ccgttctacc 420
tgcacgctat gcctaacgct ggcaccctct tacaactgca acaattgctg ccattcaacc 480
aacttgcttt gacaaactca acagtgttct accaacaacc catcattggg ggtgccctct 540
tttagattgc ttatgagtta tagttc 566

<210> 7051
<211> 205
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-070-Q1-K6-F1

<400> 7051

gttccagctt ttctcagcg atnnccttct cagnncaggt gggnagtcaa tgnnnagcaa 60
tcaggnaaag naaagtagaa gnnctgcgcc gcctaagnaa ttgaagctat ttaggnaatt 120
agnnaagtca cttaagggtta ctcaggagcg aggcgcgcgt aatcatnnnc tcagcgagct 180
tagaaaatnn agctgcaggn agttg 205

<210> 7052
<211> 583
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-K6-F10

<400> 7052

acagtaccat caatcatcat tcatcttagt agtataggca ccaaatcaaa tctgcaacat 60
 caattatcta actccaaaac catgaagctg gtgcttggtg ttcttgcttt cattgcttta 120
 gtatcaagtg tttcttgtag acagacaggc ggctgcagct gtggtcaaca acaaagccat 180
 gagcagcaac atcatccaca acaacatcat ccacaaaaac aacaacatca accaccacca 240
 caacatcacc agcagcagca acaccaacaa caacaagttc acatgcaacc acaaaaacat 300
 cagcaacaac aagaagttca tgttcaacaa caacaacaac aacccgcagca ccaacaacaa 360
 caacaacaac aacagcacca acaacaacat caatgtgaag gccacaaca acatcaccaa 420
 caatcacaag gccatgtgca acaacacgaa cagagccatg agcaacacca aggacagagc 480
 catgagcaac aacatcaaca acaattccag ggtcatgaca agcagcaaca accacaacag 540
 cctcagcaat atcagcaggg ccaggaaaaa tcacaacagc aac 583

<210> 7053

<211> 582

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-F11

<400> 7053

nccaacaagc aacatagnaa gtgggggggg ggggggggcaa tagnacaaca atggcgacca 60
 agattttttc ctctttatgc tccttgctct ttctacatgt gttgctaacg cgacaatttt 120
 ccttcaatgc tcacaagctc ctatagcttc ccttcttccc ccataccttc catcaatggg 180
 ggggtggaata tgtgaaaacc cagctcttca accatatagg cttcaacaag caatcgagc 240
 aagcaacata cttttatcgc ccttggtggt tcaacaatcg ccagccctat ctttggtgca 300
 gtcattggta caaaccatca gggcacaaca gctgcagcaa ctctgtgtac ctctgatcaa 360
 ccaagtagct ctggcaaacc tttctcccta ctctcagcaa caacaatttc ttccattcaa 420
 ccaactgtct aactgaacc ctgctgctta ttgagcaa caactattac catttagcca 480
 gctagctact gctactctc agcaacaaca acttcttcca tttaaccaat tggccgcact 540
 gaaccccgct gcttatttgc agcagcaaact actactacca tt 582

<210> 7054

<211> 598
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-070-Q1-K6-F12

<400> 7054

agcgtccggc tggggagagg aaacgcgaca ggggcgagcg agttcatgac cattaccggc 60
gccagtgagn aggttgccct tcnaggcact gaaagctagt gattggcact tggaaggagc 120
ttttgacttc ttctatagcc aacctcaggt ttctgtggtc aatactcggc attcttgaag 180
atattttgag ggggagtaaa gaacctgatg ctgatatgat aatgggtggaa ggaatatctc 240
aattttgcaa tgatctgcag gttgatcctc aggatattgt catgcttgtc atatcatggc 300
acatgaaagc cgccacaatg tgtgaattta ctgcgcagga attcattggg ggactgcagt 360
caattggggg agattcaatc gagaagtttc gtggaaaatt accatcatta cgagctgagc 420
taaaagatga caataaattc cgtgatatat acaactttgc attcacttgg gcaagggaaa 480
agggtcaaaa gtctctctca ctggagactt ctattggaat gtggcagttg ctatttgctg 540
aaaggaactg gcctcttctg gatcattggg gtcagttttt acaggtcaga cacaataa 598

<210> 7055
<211> 579
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-070-Q1-K6-F2

<400> 7055

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cttatgctcc ttgggtatttc tgcaagtgtc gctacggcga ccattttccc gcaatgctca 120
caagctccta tagcttccct tcttcccccg tacctctcac cagcgggtgtc ttcggtatgt 180
ggaaaaccca attcttcaac cctacaggat ccaacaggca atcgagctg gcacttacc 240
tttatcacc ttgttctctc aacaatcatc agccctatta cagcagttac ctttggtgca 300
tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360
tgctactct cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaactctgc 420

ttctttatttg caacaacaac aactaccatt cagccagcta cctgttgcct accccaaca 480
 atttcttcca ttcaaccaac tggcagcatt gaactctcct gcttatttac agcagcaaca 540
 actactacca ttcagccagc tagctggtgt gagccctgc 579

<210> 7056

<211> 573

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-F3

<400> 7056

tgcaaagggtg ngagtggagt caagcaaacc ctgcaagtcc tgtacccaaa cagttgaatc 60
 ctcacttcca cttgtcaaga taccacacacc agaatacagc aaagagaaca gcggtgttat 120
 gtggatatcc tcacctgacg ggcttgaaga tcctcgaagg ccatttcagt actctaacag 180
 ttctggctct ccctgtgttt cagaatcagg atctgacatt tatggcaaaa gagaggtcat 240
 acagaagcta agacagcacc tcaagaaacg tgatgagatg atcatggaga tgcaaactca 300
 gattgctgat cttaagaact ctcttaacat tcaggtgaca cagtcagca atctgcagtc 360
 tcaattggat gctgccaatc gtgatctgtt tgaatctgaa cgagagattc agcatctaag 420
 gaagattatt gcagatcatt gtgtcacaga agcactctct catgataaac ctttgcaagc 480
 tgcgcattgg cagccagatg ccgcaaattg gcattcta atgggttggtg atgggtgtgtg 540
 tgatgatgct gacctgcatt gtattagcat cga 573

<210> 7057

<211> 594

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-K6-F4

<400> 7057

cggtgcggc tgccagccac cgccgccggt tcactaccg ccgccggtgc atctgccacc 60
 tccggttcac ctgccacctc cggtgcatct cccaccgccg gtccacctgc cgccgccggt 120
 ccacctgcca ccgccggtcc atgtgccgcc gccggttcat ctgccgccgc caccatgcca 180
 ctacctact caaccgcccc ggcctcagcc tcatccccag ccacacccat gcccggtgcca 240

acagccgcat ccaagcccgt gccagctgca gggaacctgc ggcgttggca gcaccccgat 300
cctggggccag tgcgtcgagt tcctgaggca tcagtgcagc ccgacggcga cgccctactg 360
ctcgccctcag tgccagtcgt tgcggcagca gtgttgccag cagctcaggc aggtggagcc 420
gcagcaccgg taccaggcga tcttcggctt ggtcctccag tccatcctgc agcagcagcc 480
gcaaagcggc caggtcgcgg ggctgttggc ggcgcagata gcgcagcaac tgacggcgat 540
gtgcggcctg cagcagccga ctccatgccc ctacgttgct gccggcgggtg tccc 594

<210> 7058

<211> 583

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-F5

<400> 7058

gntctgaaac cctccccacc tccggcggcg ggcggggcgc tggcgaccgg gtgtcttctc 60
cggcgagtct cccccctagt aacaagaaaa ttggatgtac ctgttgatga ccctgtggag 120
aacctcactg gaagtcctag tacccttggc aatgaggaag aagccactac ttatgctaata 180
gtgcaagatc agtccaagga agaaccagaa aagctttacg aggaacccaa agacccaatg 240
caagacgagt tgggtaacca agggcatgtg agcatgaaca atgaagatgt gggaggccag 300
aaciaagtgg accaagctac cccacagag cacggcgagg aagctggggg gaagcagcat 360
gatgctacag ttcctgatga caagaaatgg cctgggtggc ctggagagag tgtgttccgt 420
atactggttc ctaccacaaa ggtgggtgcc gtcattgggc gcaaagggga tttcatcaag 480
aaaatgtgtg aggaatcaag agcccgcac aaggttcttg agggaccacc agctgtgcca 540
gaaagagctg taatgatttc agcaaaggat gaaccagaca cag 583

<210> 7059

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-F6

<400> 7059

atcaccaatg gctgncattg actctgctgc ttatttgcaa caacaattac cattcagcca 60
gctagttgct gcctaccccc agcaatttct tccattcaac caactagcag cattgaactc 120
tgctgcttat ttacagcagc aacaactact accattcagc cagctagctg atgtgagccc 180
tgctgccttc ttgacacaac aacagttggt gccgttctac ctgcacgcta tgcctaacgc 240
tggcaccctc ttacaactgc aacaattgct gccattcaac caacttgctt tgacaaaccc 300
aacagtgttc taccaacaac ccatcattgg tggcgccctc ttttagattg cttatgagtt 360
atagttcaat aatgaagttt tttggatgat gtttgtggcg tcccagaaat aagaaagtac 420
atttctagat tctt 434

<210> 7060
<211> 574
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-070-Q1-K6-F7
<400> 7060

caggggggac gggngggccac aagtcgggac cgcccgatc taatccgctc gagcgcagcg 60
gctcgttcct cgcgggggcg cacgggttggc atttcgagtg ctgagacatc ggcttcattg 120
aatcctaaag ccggttgagc catgggttggc tcccttgctg cctcagcctt cttccctggc 180
ccagggggcg ctccagcagc atccgcgaag aacttggtcg gtgaagtacc ggatagtttg 240
agcgtccgtg gtattgtcgc aaagcctaata gccaatctg ggaacatgca agtgaaggct 300
caagcacaaa ccttcccaa ggttaatggc accaagggtta acctcaagaa tgcaagctca 360
gacacagagg aggcgatacc ctacactgct cccaagacat tctacaacca actgccagat 420
tggagcatgc ttcttgggc tgctactacc atcttcttg cagcagagaa gcagtggaca 480
ctgcttgact ggaagccgaa gaaacccgac atgcttggtg atacatttg ttttggtggg 540
atcatccagg atgggatggt gtttaggcaa aact 574

<210> 7061
<211> 591
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-K6-F9

<400> 7061

atattgagac cactagcaac atagaagcac aatagtgtac caacaatggc agccaaaaat 60
tttgcttcct tatgctcctt ggtctttctg caagtgttgc taccgcaacc attttccac 120
aatgctcaca agctcctata gcttcccttc ttccccata cctctcacca gcggtgtctt 180
caatgtgtga aaaccaatt gttcaacct acaggatcca acaggcaatc gcaacaggca 240
tcttaccatt atcaccttg ttcctccaac aaccgtcagc cctattacag cagttacctt 300
tggtccattt ggtggcaca aacatcaggg cacaacaact acaacaactt gtgctagcaa 360
accttgctgc atactctcag caacatcagt ttcttccatt caaccaactg gctgcattga 420
actctgctgc ttatttgcaa caacaattac cattcagcca gctagtgtgt gcctaccccc 480
agcaatttct tccattcaac caactagcag cattgaactc tgctgcttat ttacagcagc 540
aacaactact accattcagc cagctagctg atgtgagccc tgctgccttc t 591

<210> 7062

<211> 105

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-G1

<400> 7062

gcgttcggtt taaaatacat atgagnagta ctgggatggg gggccctcat agcggcatgt 60
gttntcctta aaaataatca atatattgat tgagaattta tctcg 105

<210> 7063

<211> 583

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-G10

<400> 7063

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cccgttggtg atatgttttt agtggccatc ggttcaaact aacaattcct aaggagactt 120

gcagtattgc cttctcatta tctggtgttc ggtgtcctgg taaaggcgag ccatactcag 180
atgaagctat tgctttgatg aggagaagga tactacagcg tgatgtggag atagagggtg 240
aagcagttga cagaacagga acattcatag gttcgttgtg ggagtccaag accaacaatgg 300
gctctgtact tctggaagct gggctggcga agctgagttc ttttggcttg gataggatgt 360
cagatgctca tgtcctaaca agagctgaac agtttgcgaa gcaacaaaag attaagatat 420
gggagaacta tgtcgagggt gagaatgctt caaatggatc cgcacctgaa tcgaaacaaa 480
aggaaatcct caaggttgtc gccacggaag ttcttggtgg tgggaagttt tatgttcaga 540
cagtgggtga ccagagggtg gcttcaattc aacagcagct tgc 583

<210> 7064
<211> 588
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-070-Q1-K6-G11
<400> 7064

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gaccacaact aaaaagcttt tgccatatat cattttcttct ttcagtcctg ataaatcagt 120
ggctgaatct gtggaagagc taaagaaatg taccgaagtg gtgatgctgc agtggcagaa 180
tgggccattg aagcttttagc aggaattgag aaaggcgctc cattttctct tttgtttaaca 240
cagaagcatt tctctcaagt tgcacagca tatgggacta gtgaacacta tttatctaag 300
ctggctggtg ttatgaaatt ggaatatcgc attgccttga ggctcgtgat tagaaacgat 360
tttgttgaag gtgtgcgtgc tgttttagtt gacaaggacc agaatccgaa gtggaatcca 420
gccactctgg aagaagtaaa catggccgag gtggaatcag ttttcgagcc attagggggc 480
gaggctgagt tgagtgtgtg aaatatggc tgccacactc agttttctta tttgtgctgc 540
aataataatg ttacaaaaca gaaatgcgat gccacagaa acaataaa 588

<210> 7065
<211> 575
<212> DNA
<213> Zea mays
<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-G12

<400> 7065

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gatcaactgg agtgtccaga acaaggatca gagcttcttt caccaacttg aaggtgtacc 120
tcttgatta cattcaaata aagtaaccac actgtttaat tatgcaagat tactggggga 180
gtgggtgatt ctgtcagagc aagcatcttt taccgtttta taattttcaa gtaccctgac 240
tacatagatg cctatctgag gttagcggct attgcaaaac aaagaaacaa tgttcaactg 300
agcattgaac tgataggtga tgctttaaag atagacgaga agaaccctaaa tgcactgtct 360
atgcttggga gtcttgaact ccagagcgat gaagcctggc ttaccgcaaa ggagcatttc 420
cgtaatgcaa aagaggccac caaggagat acctactctt tgcttcaatt ggggaactgg 480
aattactttg ctgccaatcg tcttgagaaa aaagccccga agattgaggc tactcatagg 540
gagaaagcca tggaactcta tcagactcaa gtact 575

<210> 7066

<211> 362

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-G2

<400> 7066

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaannn aaaaaaaaaa aaaaaanaaa 60
aaaaaaaaa aaaaaaaaaa anaaaaaaaaa aaaaaaaaaa aaaaaaaaaa naaaaaana 120
nnnaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aanaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa naanaaaaaa 240
anaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aannanaaaa aaaaaanaaa 300
aaaaaaaaa aaaaaaaaaa aaanaaaaaa aaanaaaaaa aaaaaanaaa aaaaaaaaaa 360
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<210> 7067

<211> 575

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-070-Q1-K6-G3

<400> 7067

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atacctggna nacatacact gaggatgttt ccagtgaat aatgaaagaa agcaggccaa 120
gcctgacctt atcattggca actacagoga tggcaacctg gtcgccactc tgctcgaca 180
caagttggga gtcactcagt gtaccatcgc tcatgccttg gagaaaacca aataccccaa 240
ctcggacatc tacttggaca agttcgacag ccagtaccac ttctcttgcc agttcacagc 300
tgaccttatt gccatgaacc aactgattt catcatcacc agcacattcc aagaaatcgc 360
gggaagcaag gacaccgtgg ggcagtacga gtccacatc gcgttcactc ttcctgggct 420
ctaccgtgtc gtccatggca tcgatgtttt cgatcccaag ttcaacattg tctcccctgg 480
agcagacatg agtgtttact accgtatac ggaaaccgac aagagactca ctgccttcca 540
tcctgaaatc gaggagctca tcaacagcga cgtcg 575

<210> 7068

<211> 579

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-G4

<400> 7068

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cctccttatg ctccttgctc tttctgcatg tgttgctaac gcgacaattt tccctcaatg 120
ctcacaagct cctatagctt cccttcttcc cccatacctt ccatcaatga tagcttcagg 180
tatgtgaaaa ccagctctt caaccctata ggctccaaca agcaatcgca gcaagcaaca 240
tacctttatc acccttgttt caacaatcgc cagccctatc tttgggtgcag tcattggtac 300
aaaccatcaa ggcacagcag ctgcagcaac tcgtgctacc tgtgatcaac caagtagctc 360
tggcaaacct ttctccctac tatcagcaac aacaatttct tccattcaac caactatcta 420
cactgaacco tgctgcttat ttgcagcaac aactattacc attcagccag ctagctactg 480
cctactctca tcaacaacaa cttcttccat ttaaccaatt ggccgcactg aacctcgctg 540

cttatttgca gcagcaaata ttactaccat ttagccagc

579

<210> 7069

<211> 593

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 7069

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cggcgatgcg ctctggcct taactggccg ggctcgtgct cggcgccgt tacttttgaa 120
gaaattagag tgctcaaagc aacccatcgt tgggtggcgcc atctttttaga ttacatatga 180
gatgtactcg ataatgggtgc cctcatagcg gcatgtgttt cctaaaaata atcaatatat 240
tgattgagat ttatctcgaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagtttttaa aaaaaaaaaa aaaagaaaaa 420
aaaaaaaaaa aaaggggggg ggccttttaa aaaaaaaaaa attttacttc cgcggggggg 480
ggaaataatt ttttttttg gggggacaaa aaaaaaaaaa agggggggcg gttttaaaaa 540
ccgggggggg gggaaaaaac cggggggcac ccaaaaaaa aggggggggg gaa 593

<210> 7070

<211> 554

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-K6-G6

<400> 7070

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gcccgatcca agcccggtgc agctgcaggg aacctgcggc gttggcagca ccccgatcct 120
gggccagtgc gtcgagttcc tgaggcatca gtgcagcccg acggcgacgc cctactgctc 180
gcctcagtgc cagtcgttgc ggcagcagtg ttgccagcag ctgaggcagg tggagccgca 240
gcaccggtac caggcgatct tcggcttggc cctccagtcc atcctgcagc agcagccgca 300

aagcggccag gtcgcggggc tgttggcggc gcagatagcg cagcaactga cggcgatgtg 360
 cggcctgcag cagccgactc catgccccta cgctgctgcc ggcggtgtcc cccactgaag 420
 aaactatgtg ctgtagtata gccgctggct agctagctag ttgagtcatt tagcggcgat 480
 gattgagtaa taatgtgtca cgcataacca tgggtggcag tgtcagtggt agcaatgacc 540
 tgaatgaaca attg 554

<210> 7071

<211> 591

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-G7

<400> 7071

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 agccatgagt aagttgcagt ctgagctctgt caaggatgcc atctcccaga ttgttgggga 120
 tgccaaggna naagaatagg aagttcactg agactgtgga acttcagatt ggntctgaag 180
 aattatgata cacagaagga caagcgtttc agtggtctctg ttaagttgcc ccatatccct 240
 cgtcccaaga tgaaggtgtg catgcttggg gatgcccgac atgttgagga ggccgagaag 300
 atgggacttg actacatgga tgttgaggct ctcaagaaaa tgaacaagaa caagaagctt 360
 gttaagaggc ttgccaagaa gtaccatgct ttcttggcat cagaggccat catcaagcag 420
 attccccgtc tccttgggtc tgggtctcaac aaggcaggca agttcccgac cctgggttact 480
 caccaggaat cctcagagtc caaggtgaac gagactaagg caaccgtcaa gttccagctc 540
 aagaaggtcc tttgcatggg tgtcgccgtc ggcaacttgg cgatggagga g 591

<210> 7072

<211> 587

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-K6-G8

<400> 7072

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cttcggcgcg ctacgggccc gcgacgacgt tcacggggcca tgtcaggaag tggggcgggg 180
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 acggtggcac gacgtcctcc acgggggatgg gatctggcgg aggatcccgcc gggaataatc 300
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 agcagcagca ggctgagacg gccacgagac gccggcggtta tgtgccggtt tctttaatgg 420
 aagagcaaag gcaagaatct accaaatctg atgatgagaa caaggctaata gatggagatc 480
 catcttcgaa tgaaactgag ccatcaaatg gaaagactga tatcaatgat acacctatgg 540
 atgaatctca ggcaacagat gaggatggtc gagattctgg taaaaac 587

<210> 7073
 <211> 567
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-070-Q1-K6-G9
 <400> 7073

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 agttgcaaca acaatccttg gcacatctaa caatacaaac catcgcaacg caacagcaac 180
 aacaattcct accagcactg agccacctag ccatggtaaa cctgcccgc tacttgcaac 240
 agcagttgct tgcacaaac ccacttgctc tggcaaacgt agttgcaaac cagccacaac 300
 aacagctgca acagtttctg ccagcgtcgt gtcaactagc catggtgaac cctgccgcct 360
 acctacaaca gcaacaactg ctttcatcta gcccgctcgc tgtggccaat gcacctacat 420
 acctgcaaca acaattgttg caacagattg taccagctct gactcagcta gttgtggcaa 480
 acctgctgc ctacttgcaa cagctgcttc cattcaacca actgactatg tcgaactctg 540
 ctgcgtacct acaacagcga caacagt 567

<210> 7074
 <211> 487
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-070-Q1-K6-H1

<400> 7074

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tctacactga accctgctgc ttatttgcag caacaactat taccattcag ccagctagct 120
actgcctact ctcatcaaca acaacttctt ccatttaacc aattggccgc actgaacctc 180
gctgcttatt tgcagcagca aatattacta ccatttagcc agctagctgc agcaagccgt 240
gcttccttct tgacacagca acagttgctg cctttctacc agcagtttgc ggctaacccc 300
gcaacctctt tacaactaca acaattgttg ccctttgtcc aacttgcttt gacaaacca 360
gcagcctcct accaacaaca catcattggt ggtgccctct tttagattgc ttattagttg 420
taattcaata ataaagtttt ttggatgatg tatgtggcca accagaaata agaagttaca 480
tttccag 487

<210> 7075
<211> 587
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-070-Q1-K6-H10

<400> 7075

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cattgcctcc gtgaagctgc gcatccagcg gttcaagggc tttgtggcga cgaagcagcg 120
gcttgtgctg gatgggcatg aactggcaag aaataactgc ccagtcaagg attatgggcg 180
gggtgagggg aatgttcttc atcttggtat tcgactgtct gatctccgtg tgatcaatat 240
tgagactgca nactggaaag aagtttcagt ttcaggtgga tcagagccgc aatgttaagt 300
ttcttaagaa caagcttgca gcagaggggtg atgaggatat tggtaatctt caggatcaca 360
agcttgaata tgatggcgag gagcttgagg accaccagct gatagctgat attagcaaga 420
gggatgatgc tgtaattcat ttgttcatcc tcaaaccagc aaaagtactg acacagcaag 480
ttgatagaga tactttgggt acagttctca atccacagga gaaaggcaac ctgcaaaatg 540
aacctcgctc aatgaactcc acaaaatcag ttgaggttag gcctgct 587

<210> 7076
 <211> 563
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-070-Q1-K6-H11

<400> 7076

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agccatatgt ccacatgggg ggggggggttt tgcctcctta tgctccttgg tctttctgca 60
agtgtctgcta cggcgaccat tttcccacaa tgctcacaag ctctatagc ttcccttctt 120
cccccgtagc tctcaccaac ggtgtcttcg gtatgtgaaa acccggtctg caacgcgtac 180
agatccaaca ggcaatcgca gctggcatct tacctttatc acccttggtc ctccaacaat 240
catcagccct attacagcag ttaccttttg tgcatatttatt ggcacaaaac atcagggcac 300
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ttccattcaa ccaactagct gcattgaact ctgcttttta ttgcaacaa caacaactac 420
cattcagcca gctatctgct gcctacccc agcaatttct tccattcaac caactgacag 480
cattgaactc tcttgcttat ttacagcagc aacaactact accattcagc cagctagctg 540
gtgtgagccc tgctaccttc ttg 563

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<210> 7077
 <211> 587
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-070-Q1-K6-H12

<400> 7077

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tgcttattta caacagcaac agctaccacc attcagccag ctagctgatg tgagccctgt 180
tgctgtggtt ggcacaggaa canttggtgc cgttctacct gcacgctgag cctaacgctg 240
gcacctctt acaactgcaa caattgctgc cattcaacca acttgctttg acaaaccxaa 300
cagcgttcta ccaacaaccc atcattggtg gtgccctctt ttagattgct tatgagttat 360
acttcaataa tgaagttttt tggatgatgt ttgtggcttc ccagaaataa gaaagtacat 420

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ttctagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
 aaaaaaaaaa aaaaanattt naaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
 aaaaaaanng gggggggccc ttttaaagaa aaccaaattt acctccc 587

<210> 7078

<211> 568

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-H2

<400> 7078

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 tagcttcctt tcttccccca tacctctcac cagcgggtgc ttcagtatgt ggaaaaccca 180
 attcttcaac cctacaggat ccaacaggca atcgccagcag gcattctacc tttatcacc 240
 ttgttctctc aacaaccgtc agccctatta cagcagttac ctttggtgca tttgttggca 300
 caaaacatca aggcacaaca actacaacaa cttgtgctag gaaaccttgc tgctactct 360
 cagcaacagc agtttcttcc attcaaccaa ctggctgcat tgaactctgc tgcttatttg 420
 caacaacaac taccattcag tcagctagct gctgcctacc cccagcaatt tcttccattc 480
 aaccaactgg cagcattgaa ctctgctgct tatttacaac agcaacagct accaccattc 540
 agccagctag ctgatgtgag ccctgttg 568

<210> 7079

<211> 564

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-H3

<400> 7079

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 ctcttggtgc tttctgcaag tgctgctacc gcaaccattt tcccacaatg ctcacaagct 120
 cctatagctt cttttcttcc cccatacctc tcaccagcgg tgtcttcagt atgtggaaaa 180

cccaattctt caaccctaca ggatccaaca ggcaatcgca gcaggcatct tacctttatc 240
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 ggcaaaaaca tcaaggcaca acaactacaa caacttggtc taggaaacct tgctgcctac 360
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 ttgcaacaac aactaccatt cagtcagcta gctgctgcct acccccagca atttcttcca 480
 ttcaaccaac tggcagcatt gaactctgct gcttatttac aacagcaaca gctaccacca 540
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<210> 7080

<211> 590

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-H4

<400> 7080

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 aagattttgc catccttgcc ctccctgctc tttcagcaag cggtgctacc gcgactatta 120
 ttccacaatg ctcaacaaca tacctctctc cggtgacagc cgcgagattt gaatacccaa 180
 ctatacaatc ctacaggcta caagaggcca tcgcagcaag catcttacgg tcgttagcat 240
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 aaagaatcgc agcacaacaa ctacaacaac agttgcttcc aacaatcaat caagtagttg 360
 cagcgaacct tgctgcttac ctccagcaac aacaatttct tccattcaat caactagctg 420
 ggggtgaacc tgctgcttac ttgcaggcac aacagctact accattcaac caacttgctc 480
 ggagccctgc tgcctttcta ctgcagcaac agttgcttcc attccatcta caagttgtgg 540
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<210> 7081

<211> 574

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-H5

<400> 7081

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gctcctatag cttcctttct tccccatac ctctcaccag cgggtgtcttc agtgtgggag 180
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cttcatttca accaactggc agcattgaac tctgtgtgctt atttacaaca gcaacagcta 540
ccaccattca gccagctagc tgatgtgagc cctg 574

<210> 7082

<211> 589

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-K6-H7

<400> 7082

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ttgtcgagcg gtacaaggac caagggatca ccgtgggttg tgggtgttgaa gctagagggt 120
tcatttttgg tctcctatc gcttttagcca ttggcgcaaa atttgtgctt tntgagaagc 180
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<210> 7083
<211> 113
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-070-Q1-K6-H8

<400> 7083

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tgatgtttgt ggcttcccag aataagaaag tcatttctag attcttatgt gct 113

<210> 7084
<211> 569
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-070-Q1-K6-H9

<400> 7084

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gcccttgcag aggcaagcca aactgtcgaa gttgacgatg ctaagcacct ggtggggggg 180

gagaggctgt tgggcgacaa gatagatgaa gtcgtcaaag aatgggatgt ccagaaggag 240

gggttctacg agaggacagg attatcctca tcccctggcg accagctcat ggccatcgac 300

aacgatgaat caggagctca atgtcacgag gatggatccc gttgcgatca gctcatggcg 360

gtcgacaatg atgaattggg agtacaggat cacgaggacc tcgacgacga cgacggcttt 420

gccgagttag aactgctgct agagtgaaga acatatacaa gtctgtaaac tcttactacc 480

ggcgtataac cgtgtaatca gaacaccgag agatgtactg gcttgtttgg tttgtggcta 540

aatgtgccac actttgcta aggttagtc 569

<210> 7085
<211> 524
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-070-Q1-N6-A10

<400> 7085

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ttgttggttag aatgctgctg ggtttgctca agcaggggtg ttgaatggca gcaattgttg 180
cagttgtaag aggggtgccag cgttaggcgc agcgtgctgg tagaacggca acaactgttg 240
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<210> 7086

<211> 499

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-A2

<400> 7086

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acgctgctgg gtttgctcaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
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aggtagcagg gctcacacca gctagctggc tgaatggtag tagttgttgc tgctgtaaat 300
aagcaggaga gttcaatgct gccagttggt tgaatggaag aaattgctgg gggtaggcag 360
caggtagctg gctgaatggt agttgttgtt gttgcaata agaagcagag ttcaatgcca 420
gctagtgtgg ttgaatggga agaaactgct gggtgcttga gagttaggca gccaaaggtt 480
ttgcttagcc acaagttgg 499

<210> 7087

<211> 549

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-A4

<400> 7087

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gctgctgggt ttgtcaaagc aagttgggtg aatggcagca attgttcag ttgtaagagg 180
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agttgggtga atggaagaaa ctgctgttgc tgagagtagg cagcaagggt tgctagcaca 480
agttgttggt agttgttggt ccctgatgtt ttgtgccaat aaatgcacca aaagtaactg 540
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<210> 7088

<211> 538

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-A6

<400> 7088

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aactgttgca gttgtaagag ggttgcgagg ttagccacaa actgctggta gaacggaagc 180
acttggtggt gtgtcaagaa ggaagcgggg cttgttgtag ctagctggcc aaatggtagt 240
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aattgttgct gctgaaagta ggcagtagct agctggctga atggtagtag ttgttggtgc 360
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tgagagtagg gggaaagggt tgccagagct acttggtga tcaactgtag cacgagttgc 480
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<210> 7089
 <211> 532
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-A7

<400> 7089

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 aactataact cataagaaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaac 120
 actgctaggt ttgtcaaagc aagttggttg aatggcagca attgttgcag ttgtaagagg 180
 gtgccagcgt taggcgcagc gtgctggtag aacggcaaca actgtgggttg tgtcaagaag 240
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 gcaggagagt tcaatgctgc cagttggttg aatggaagaa attgttgggg gtaggcaaca 360
 ggtagctggc tgaatggtag ttgttgttgt tgcaaataag aagcagagtt caatgcagct 420
 agttgggtga atggaagaaa ctgctgttgc tgagagtagg cagcaagggt tgctagcaca 480
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<210> 7090
 <211> 569
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-A8

<400> 7090

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 taatcaactg tttgcgctat cgttgtgctt aactgaaata tatatgaaat caagtctcga 180
 cactgggtgtg gccattccat cttttcctag gaagccatgc tagatttagt tatatgaagc 240
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 ccgttctcgg acatgcacaa aaacatgtag acagcagcac aacgattaat tgtttttattc 360
 ataactcaca aaatatgcat ccaaaaatag taaactagga ctttctggaa agcttagaaa 420
 gtccctctata actcttatat tatcatcaca acatgattca acagtttgaa tgggtcaaaca 480
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ataactggag tttcataaat ccaaatacag

569

<210> 7091

<211> 523

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-A9

<400> 7091

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ctgctggggtt tgtcaaagca agttggttga atggcagcaa ttgttgcagt tgtaagaggg 180
tgccagcggtt aggcgcagcg tgctggtaga acggcaacaa ctgggggttgt atcaagaagg 240
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gtagctgggtt gaatggtagt tgttgttgtt gcaaataaaa agcagagttc aatgcagcta 420
gttgggttgaa tggaaaaaac tgctgttgcg gagagtaggc aacaaggttt gctagcacia 480
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<210> 7092

<211> 478

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-B1

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ctgccaccca tggatgatgc tgacacatta ttactcaatc atcgccgcta aatgactcaa 120
ctagctagct agccagcggg tatactacag cacatagttt cttcagtggg ggacaccgcc 180
ggcagcagcg taggggcatg gagtcggctg ctgcaggccg cacatcgccg tcagttgctg 240
cgctatctgc gccgccaaca gccccgcgac ctggccgctt tgcggctgct gctgcaggat 300
ggactggagg accaagccga agatcgcttg gtaccggtgc tgaggggtcca cctgcctgag 360
ctgatggcaa cactgttgcc gcaacgactg gcaactgaggc gagcagtaag gcgtttccgt 420

agggctgcac tgatgcctca gaaactcaac gcactggccc aagatcgggg tgctggca 478

<210> 7093

<211> 520

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-N6-B11

<400> 7093

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aagccacaaa catcagataa aaaactttat tattgaacta taactcataa gaaattaaaa 120

gaggcaccac caatgatggg ttgttggtag aacactgggtg gggttgtcaa agcaagttgg 180

ttgaatggca gcaattgttg cagttgtaag agggtgccag cgttaggcgc aacgtgctgg 240

tagaacggca acaactgtgg ttgtgtcaag aaggtagcag ggctcacacc agctagctgg 300

ctgaatggta gtagttgttg ctgctgtaaa taagcaggag agttcaatgc tgctagttgg 360

ttgaatggaa gaaattgctg ggggtaggca gcaggtagct ggctgaatgg tagttgttgt 420

tgttgcaa at aagaagcaga gttcaatgaa cctagttggg tgaatggaag aaactgctgt 480

tgctgagagt aggcancaag gtttgctacc acaaagttgt 520

<210> 7094

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-B12

<400> 7094

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cgatgcaaaa aggggtatgt acacctggct agcagtaacc catcggggga aattgaacga 180

tcaagtaccc aacctcatac taatacagct tttttcta at catttaccg accttttgga 240

gccgtcttgt cttgtgtcac cgggcggggc acctaccca ccttgcccg gggggggatg 300

ttgagggcga accccacccc gaccgctggg gaggggtcca ccacggatga cgaccacccg 360

gggtcgctct gtccttttc acgggagggg gccccgtcac cttgttggc accggcgggg 420
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<210> 7095

<211> 545

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-B2

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accaagttca gttgactggg ggtacacagc cacaaaatgg cgtggcactg gaaacgctct 180
gaaagctact acacaagatc tgattacagg tccctttgcc cagggaggtc acaagcacca 240
acaaatgtcc aaaaagataa caattgtatt aactcaaagg gacggaggac aaaaaaaaaa 300
aatcatgca catgaaacac catggccctc agatataata ttcaggagtg aattcctatg 360
gcaataagct tgtgtggctt ctgaacatga aacaccatgg ctcccagatg tgcaacaact 420
gagacctcaa tcgaatgttg gtgataagca ctcttcaacc atgtccagta ggtttgggtt 480
ttccaatgca gccgcaacac gttctttgtc attcagttgc ttattcacag caacttcagt 540
tgcgt 545

<210> 7096

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-B4

<400> 7096

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gatggcaact aaggtcgccc actcattcag ccatcaagac tggatatatt gtcttgtctt 180
gaagactgga tatattgctt tcacctgaac ttttgccgcc gtctcagctc ccgctgtata 240
gccttttttc tagcctcgtc cgaaaattct acattctctg caaaccgagc ttgggggctt 300

atgacactcc ctgaagcacc accaggtccg tatccccgtg gaaaggcttc caagtccata 360
 ctccttgagc caccagttct ctggattcct gcaagcattc tctgctggca ggctcgaaatc 420
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<210> 7097

<211> 521

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-B5

<400> 7097

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 gatggggttgc tgcctcgaca agacaggggtt tatcaaagag aactggttgt atggcagcaa 180
 ttgttgctgc tgtaggaagg cagcgaccaa tgggtaggcc actgctagtgc gattaagtaa 240
 ctgttgctgc tgtagtaggt acgcagcaaa gtctgacata gtcagttggt tgaatggaag 300
 cagctgttgc aagtaggcag cagggtttgc cacaactagc tgaatcagag ctggtacaat 360
 ctgttgcaac aattgttgtt gcaggtatgt aggtgcattg gccacagcga gcgggctaga 420
 tgaaagcagt tgtagctgtt gtaggtaggc ggcaggggtc accatggcct agttgactga 480
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<210> 7098

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-B6

<400> 7098

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 aaaaaaggga ctttttaaaa aaaacaaaaa tgggcaacaa caaacacgag acgaacgaaa 180
 ataaacactt tggactaggg gaaaaaaaac gggagcaaaa aagaaaaatt gggcgggctg 240
 gcccacacgg taaattcctc caattcccgt gggagttgcc gaaaccccc ccacggttgc 300

cacccccgta acccccccca ccaccaccgt aaccgccgcc gccaccaccg taaccccccc 360
 :cacccccgaa accgcccccg ccataacggg gcc 393

<210> 7099

<211> 506

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-B7

<400> 7099

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 aatacggcct atttgtttgg gaactagaca ttcatacaat cctgggggga ggaggggtac 120
 ccgcgctcgc cacggatgcg gcgggcaagc tggatgtcct tgggcatgat ggggacccgc 180
 ttggcggtgga tggcgcaaag gttggtgtcc tcaaaaaggc cgacgaggta ggccttgagg 240
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 gcgatctcgc gcaccaggcg ctggaagggc agtttgcgga tcaaaagctc cgtgctcttt 360
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 acgcgcggcg tcgttggggc cgacttcctt gccgccttgg ggggaaactg tttgcggggg 480
 gccttgcttc ccgggaattg ggggcg 506

<210> 7100

<211> 539

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-B8

<400> 7100

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 cagcaattgt tgcagttgta agaggggtgcc aacgttaggc gcagtgtgca ggtagaacgg 180
 caacaaatgt tgctgtgtca agaaggcagc agggctcaca gcagctagct ggctgaatgg 240
 tagtagttgt tgttggttga cataagcatg agagttcaat gctgccagtt ggttgaatgg 300
 aaaaaattgc cgggggtagg cagcagctag ctggctgaat ggtagtagtt gttgttgctg 360

caaataagca gcagagttca atgcagctag ttggttgaat ggcaaaaact gttgttgctg 420
agagtaggca gcaaggtttg ctagcaccag ttgtttagt tgttgtgcc tgaatgtttg 480
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<210> 7101

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-C1

<400> 7101

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ccaagaggg ggggccgga agaagccgcc cggggaaggg gggcacgtcg gacaaagggg 180
aaaaatggac gaaggggaaa aaaggttgag ggggtaaaag ggaggggggg gaagaaaggg 240
acgaaagggg ggggggggaa gaagggagca ag 272

<210> 7102

<211> 549

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-C11

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ctagctagct agccagcggc tatactacag cacatagttt cttcagtggg ggacaccgcc 180
ggcagcagcg taggggcatg gagtcggctg ctgcaggccg cacatcgccg tcagtgtgctg 240
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cgggctgcac tgatgcctca gaaactcgac gcactggccc aggatcgggg tgctgccaac 480
gccgcaggtt ccctgcagct ggcacgggct tggatgcggc tgttggcacg ggcattgggtg 540

tggtctgggg

549

<210> 7103

<211> 499

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-C12

<400> 7103

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tctaacttca gaaatataaa ggaacactta ggccagcatt cggccgttct ccaaatacaa 180
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<210> 7104

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-C2

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ggggctgggg caaatcagtt tacagaggaa taaaaccaag acaatcttca ggggtggctgc 180
taaaaaagga cgctgtta 198

<210> 7105

<211> 518

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-C3

<400> 7105

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<210> 7106

<211> 530

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-N6-C4

<400> 7106

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caataagggtg gtaggattcg tcaaagcatg ttggctaaat ggtagcaatt gttgttggtg 180
taagaaggca acaatgtttg ccacattctg tgggtagaat ggtagcaatt gttgctgttg 240
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gtagatagca gggttcacc cagctagttg attgaatgga agaaactgtt gttgctggag 480
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<210> 7107

<211> 524

<212> DNA
 <213> Zea mays
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 <400> 7107

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aaaaaaaaaa aaggggtttg ggaaatatcg gggaaaaaag ggaaaaaat ttggggggaa 420
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<210> 7108
 <211> 528
 <212> DNA
 <213> Zea mays
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 <400> 7108

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ttggttgaat ggaagaaact gctgttgctg agagtaggca gcaaggtttg ctagcacaag 480
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<210> 7109
<211> 487
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-C7

<400> 7109

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<210> 7110
<211> 513
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-C8

<400> 7110

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cctcatgttt ggggttcacgg gggggttttg atcaacgaaa cagccgtcaa tggctcatcc 180
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caaatatgat gatggtttga aaaagggggc ataaatttca gccacttgc ttagcttaaa 360
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aaaacccatt ccaagaacag aagcaatttc aagatcagaa gctcgaatta caaacatttt 480
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<210> 7111
<211> 496
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-C9

<400> 7111

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ctgggaccta ggggacatca ggaacaagaa atggctattc ccgcttgctc tcctcagcct 300
catcttctaa gccgaaagca ctgctgacac cagcatttct gtccttgctc atttttacca 360
tcctacttc accatctcct ttcgtcagag attgagattc ctcactgtca tcgtcagcag 420
cttcaccaga atatgcatat ctttgcgagc tttgggaagg tgcccacaga taacaaatca 480
caagaagcaa cacaaa 496

<210> 7112
<211> 496
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-D1

<400> 7112

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caacattgtt gcagcagtct tcctcatggg accttgatgg aactaccgga ttgcattcac 120
aaggggggtac acaggggatc acctaacatc agcactatct tatatacaac gccaccgcca 180
taatgccgaa ggttggttggc tactcaagaa caacaggcag acaccaaata aaagtgtatt 240
tatcaaaaaa tgggggtttac tgtcagcctc cttttgggag gggacttctc gattatctgg 300
ttttgcaagt ccatgaaact gattcccttg tttgcaaaca ggcttctgag ggtgatcact 360
gagagctcgc tgtactttgc aatggcaagg tttggctgta ccaactcata cgctgggata 420
agcaccaa at caatggcact gccatcaatg gacagatggg ggggggttgt gacgcccctt 480

ggggcatcct cgaaca

496

<210> 7113

<211> 504

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-D10

<400> 7113

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gataaaagtg cacatgctaa cagatctcaa cagttcacac gataacagca acgatcacia 120
acaaaacttg tgatgatgaa aactaggtat tgctaaagca ggcgaggat cgcattcttt 180
cttcttggca gccgccttgg tcaccttggc gccggctggg tccttcttct ccacactctt 240
gataactcca acagcaaccg tctgtctcat gtcacggaca gcaaactac caaggggagg 300
atacgtgag aatgtctcca ccaccatggg cttggctggg atcatcttca ccataccagc 360
atcacggttc ttcaggaact ttggctcctt ctcaagctcc ttgccagacc gcctgtcgat 420
cttggtaatg agctcaacaa acttgacagc aatgtgggag gtgtggcagt ccagcactgg 480
ggcatagccg ttgccaatct gcc 504

<210> 7114

<211> 570

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-D12

<400> 7114

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gagatgcggg ccgcgcgcgc cgcggcgcgc gggtggcaga tgcgcacgct ggaggcggtc 120
accgcggtgc tggcgcgcac gcagctggcg tacgtgctga tgctgcaccg cgccgccgcc 180
gccgcgtacg ctgatgatga agccgatgct accgcctacg ccgacgctgg tggcgaccag 240
tgcgagcctg gctgttccat cggcaccgag gacgacgcc acgcccactg ccagcgcgcg 300
cagcagcagc agcatggccg ccaccaccac caaccaggc agggcgggcg gccctcgtgc 360
agtgtcatgt gaactagcat acccatgcat gcatgtttgg tgggtgcgct ctcttgtctt 420

gccattttcc gtgctcgtgt ttcgtctcgt ggaaaataag caatttaaac ttagtttaaat 480
 ttcctgtatg tcatgtgttc gtttttagtgt gtatgcctcc tatatattat ggtcgtatgt 540
 gtgtgtcgac atgcttgtgt ctctcagtat 570

<210> 7115
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-070-Q1-N6-D2
 <400> 7115

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 aactataact cataagaaat ctaaagagg gcaccaccaa tgatgggttg ttggtagaac 120
 actgctgggt ttgtcaaagc aagttgggtg aatgggagca attgttgag ttgtaaaagg 180
 gtgccagcgt taggcgcaac gtgctggtag aacggcaaca actgtgggtg tgtcaagaag 240
 gtaacagggc tcacaccaac taactggctg aatgggagta attgttgctg ctgtaaataa 300
 gcaggagagt tcaatgctgc tagttgggtg aaaggaagaa attgctgggg gtaggcaaca 360
 ggtagctggc tgaatggtag ttgttgntgt tgcaaattag aagcagagtt caatgaacct 420
 agttgggtga atggaaaaaa ctgctgttgc 450

<210> 7116
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-070-Q1-N6-D3
 <400> 7116

gggggggggg gggctctttt ttgggggggg ggcccccccg ccggacaaaa agcttttttt 60
 gggggccctt ccccagggg aaatcaaaga ggggggcccc ccccgggggg gggggggggg 120
 aaaggggggg ggggtttgaa aaaagggggg gggggggggg gccacttggg gggggcaaaa 180
 aaaagggggg ttcaatggc cttggggggg gggggggaaa aacctggtgt tgtggagggg 240
 gggccaaggg ggtttcccc caaagggggg gggggggggg gccctgggt tttgggcca 300

aaaagcccc cagggggccc gggggaaaag ggggtaagat tggggggggg aaaggggggg 360
 aaaagggaaa agggcccccg gggagggcgg gggggcccc tgggggggaa aaaagggggg 420
 tc 422

<210> 7117
 <211> 538
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-070-Q1-N6-D6
 <400> 7117

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 gtggtaggat tcgtcaaagc atgttggcta aatggcagca attgttggtg ttgtaagaag 180
 gcaacaatgt ttgccacatt atgtgggtag aatggcagca attgttgctg ttgcaagaag 240
 gcattaatgt ttcccacaac ctgtgggtaa aatggcaaca attgttggtg tcgcaagaaa 300
 gaagcaatgt tttccacagc ttgcagatgg aatggcagaa gctgttggtg cagtaagaag 360
 gcatcagggc tcccgacaag ttggttaaata ggtagtagtt gttgtgcctg caagtagaca 420
 gcagggttca ccccgactag ttgattgaat ggaagaaatt gttgttgctg gagataagca 480
 gcaaggttcg ctgcaactac ttgattgatt gttggtagca actgttggtg tagttggt 538

<210> 7118
 <211> 547
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-070-Q1-N6-D8
 <400> 7118

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 ttattgaatt acaactaata agcaatctaa aagaggcacc accaatgatg tgttggttggt 120
 aggaggctgc tgggtttgtc aaagcaagtt ggacaaaggg caacaattgt tgtagttgta 180
 agagggttgc ggggttagcc gcaaactgct ggtagaaagg cagcaactgt tgctgtgtca 240
 agaaggaagc acggcttgct gcagctagct ggctaaatgg tagtaatatt tgctgtgtgca 300

aataagcagc gaggttcagt gcggcccaatt ggttaaattg aagaagttgt tgttgatgag 360
 agtaggcagt agctagctgg ctgaatggta atagttgttg ctgcaaataa gcagcagggg 420
 tcagtgtaga tagttgggtg aatggaagaa aatgttggtg ctgatagtag ggagaaaggt 480
 ttgccagagc tacttgggtg atcacaggta gcacgagttg ctgcagctgc tgtgccttga 540
 tggtttg 547

<210> 7119
 <211> 573
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-D9

<400> 7119

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 ttgaaatata ttgagataaa tctcaatcaa tatattgatt atttctagga aacacatgcc 120
 ggaatgaggg caccattatc gagtacatct catatgtaat ctaaaagatg gcacctccaa 180
 cgatggggtg ctgcctcgac aagacagggg ttatcaaaga gaactgggtg tatggcagca 240
 attgttgctg ctgtaggaag gcagcgacca atgggttagc cactgctagt ggattaagta 300
 actgttgctg ctgttgtagg tacgcagcag agttcgacat agtcagttgg ttgaatggaa 360
 gcagctgttg caagtaggca gcaggggttg ccacaactag ctgagtcaga gctggtacaa 420
 tctgttgcaa caattgttgt tgcaggtatg taggtgcatt ggccacagcg agcgggctag 480
 atgaaagcag ttgttgctgt tgtaggtagg cggcaggggt caccatggct agttgactga 540
 gcgctggcag aaactgttgc agctgttggt gtg 573

<210> 7120
 <211> 496
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-E1

<400> 7120

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 atgatggggtt gttggtagaa cactgctggg tttgtcaaag caagttgggt gaatggcagc 120

aattgttgca gttgtaaaag ggtgccagcg ttaggcgcaa cgtgctggta gaacggcaac 180
aactgtgggtt gtgtcaaaaa ggtagcaggg ctcacaccag ctagctggct gaatggtagt 240
agttgttgct gctgtaaata agcaggagag ttcaatgctg ctagttgggtt gaatggaaaa 300
aattgctggg ggtaggcagc aagtacctgg ctgaatggta gttgttggtt ttgcaaataa 360
aaagcagagt tcaatgaacc tagttgggtt aatggaaaaa actgctgttg ctgagagtag 420
gcagcaaggt ttgctaacac aagttgttgt agttgttgtg cctgaagtt ttgtgccaat 480
aaagcaccaa agtaac 496

<210> 7121
<211> 446
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-070-Q1-N6-E10
<400> 7121

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caacacaggc tcatagggtc gacacataat tcgcatccca aactcaaact tgataattca 120
ttcaaacaca gcaatggggc ccacctacaa actaaagtaa cactggggca aacgtccctt 180
acaccgaaaa aaaaacacag tttggggctt gataccttaa atctcctgaa caagcaaacc 240
tggcgggaac gactgcttga acttgttggc cttttcggcg tcttggcacc caaaggggtg 300
agaggtagct ggagcacccc acctaaact tgacgggggc cttggccccc ttgatccgca 360
ccgaccgtgc gttctttccc cgcgcagtaa gaagaaagtc cttgttctcg tggatctgtt 420
ctcgcatggg ggggagcccc gggcgg 446

<210> 7122
<211> 549
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-070-Q1-N6-E11
<400> 7122

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aactataact cataagaaat ctaaaagagg caccaccaat gatgggttgt tggtagaatg 120

ctgttgggtt tgtcaaagca aggtggttga atggcagcaa ttgttgcaagt tgtaagaggg 180
 tgccagcggt aggcgcagcg tgctggtaga acggcaacaa ttgtggttgt gtcaagaagg 240
 tagcagggct cacaccagct agctggctga atggtagtag ttgttgctgc tgtaaataag 300
 caggagagtt caaagctgtc agttggttga atggaagaaa ttgctggggg taggcagcag 360
 atagctggct gaatggtagt tggtgttgtt gcaaataaga agcagagttc aatgcagcta 420
 gttggttgaa tggaaaaaac tggtgttgct gaaagtaggc accaaggttt gctagcacia 480
 gttgtttagt ttgttggtcc cttgatgttt gtgccaataa atgcaccaa gtaactgctg 540
 taatagggc 549

<210> 7123
 <211> 76
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-E12

<400> 7123

gaatctagaa agtactttct tattttctggg aagccacaaa catcagacaa aaaactttat 60

tattgaacta taactc 76

<210> 7124
 <211> 551
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-E5

<400> 7124

atcgagataa atctcaatca atatattgat tattttctagg aaacacacgt cggatatgagg 60

gcaccattat cgagtacatc tcatatgtaa tctaaaagat ggcacctcca acgatgggtt 120

gctgcctcga caagacagga ttcacaaag agaactgggt gtatggcagc aattgttgct 180

gctgtaggaa ggcggcgacc aatgggttag ccactaccaa tggattaagt aactgttgct 240

gctgtttagt gtacgcagca gagttcgaca gagtcagttg gttgaatgga agcagctgtt 300

gcaagtaggc aacaggggtt gccacagcta gttgagtcag agctgggtaca atctgttgca 360

acaattgttg ttgcaggtat gtaggtgcat tgccacagc gagcgggcta gatgaaagca 420

gttgttgttg ttgtacgtag gcggcagggg tcacatggc tagttgactg agcggtggca 480
gaaactgttg tagctgttgt tggtgctggg ttgcaactac gttcgccaaa gcaggtgggt 540
tggatgcaag c 551

<210> 7125
<211> 375
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-070-Q1-N6-E6
<400> 7125

gggggggaaa aaagggtttt tttttgccaa aaaaaaaaaa aaagatgggg tttccacacc 60
cccccgggcg ggatgagaaa ttttccccctt ttttttagcc cccgcttttt ttatatagcc 120
ctgttggggg gttgggctaa caagcacccc gaatcggtga tacaacaaaa aattcttcgg 180
gttggaacaaa aaaaaattgg ggggggcccc ttttttaaac caccatccac caaacgatgg 240
aaaaaaaaac cgaaaattaa gaaaacgaca acggtttttg ggtttgaaaa aaacaaactt 300
ggtgggggaca attaatatat tcaaagggtg gaaaagggtc ggaaaaaggg ggtcaaacc 360
aaaaaacccc ccccg 375

<210> 7126
<211> 556
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-070-Q1-N6-E8
<400> 7126

agaaatgtac tttcttattt ctgggaagcc acaaacatca gacaaaaact ttattattga 60
actataactc ataagaaatc taaaagaggg caccaccaat gatgggttgt tggtagaatg 120
ctgctggggt tgtcaaagca agttggttga atggcagcaa ttgttgagcgt tgtaagaggg 180
tgccagcggt aggcgcagcg tgctggtaga acggcaacaa ctgtgggttgt gtcaagaagg 240
tagcagggtt cacaccagct agctggctga atggtagtag ttgttgctgc tgtaataaag 300
caggagagtt caatgctgtc agttggttga atggaagaaa ttgctggggg taggcagcag 360
atagctggct gaatggtagt tgttgttgtt gcaaataaga agcagagttc aatgcagcta 420

gttggttgaa tggaagaaac tgctgttgct gagagtaggc agcaaggttt gctagcacia 480
 gttgtttag ttgttgtgcc ctgatgtttt gtgccaataa agcaccaaag ggaactgctg 540
 gaatagggt gatgat 556

<210> 7127

<211> 549

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-E9

<400> 7127

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 aactataact cataagcaat ctaaaagggg gcaccaccaa tgatgggttg ttggtagaac 120
 actgttgagt ttgtcaaagc aagttggttg aatggcagca attgttgctg ttgtaagagg 180
 gtgccagcgt taggcatagc gtgcaggtag aacggcaaca actgttggtg tgtcaagaag 240
 gcagcagggc tcacatcagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
 gcagcagagt tcaatgctgc tagttggttg aatggaagaa attgctgggg gtaggcagca 360
 actagctggc tgaatggtaa ttgttggtgc aaataagcag cagagttcaa tgcagccagt 420
 tggttgaatg gaagaaactg atgttgctga gagtatgcag caaggtttgc tagcacaagt 480
 tgttgtagtt gttgtgccct gatgttttgt gccaccaaat ggaccaaagg taactgctgt 540
 aatagggt 549

<210> 7128

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-F1

<400> 7128

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 acaagatgat atcatctgcc atggcctcag atccagaggt gaagtctctt ctgagcagca 120
 catctgctat ctggatgccg gccataacag cgtctgcaa tgagaggcgg aggattgtta 180
 gcaccagcac cgaatgcacc caggacaacg cagataattc caaacaggctc ctaggccatg 240

atgccta

247

<210> 7129

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-F10

<400> 7129

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tttttttttt tttttttttt ttttttggggg gggggggggt ttgttttttt ttttttttta 180
gagggggggg ggttttagag gaaaaaccgg gtatgagggt aaaagggggg gggaaaaaaa 240
tttttttaag aagaaaccac aaataggcgt ggggggcggg agaatatatt tgggggagag 300
gggggggaaa agcccaaattg gggggggggg tttgtggcgt ggt 343

<210> 7130

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-F11

<400> 7130

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ccacccaaaa actttttttt tgatttccaa ctaaaggggg ttttaaaagg gggccccccc 180
aatgtttttt ttttggaagg aggccttgg ttttttaaaa gaaagtggg aaaagggcaa 240
aaattttttt attttaaaaa ggggttgggg gttaccccaa aactgttggg aaaaagggaa 300
aaactttttt ttttttaaaaa aagaaaccgg gtttgttggg ccaagctggt aaaaggggaa 360
gagtttttgt tggtgaaaaa aacagggggg tttaaggcgg ccaattggtt aaataaaaaa 420
attttttttt tttta 434

<210> 7131

<211> 545

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-070-Q1-N6-F12
 <400> 7131

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 cagttcacga tcgcaggctg acagccacca cttcccaggc aagttatgtt tccccacgtt 120
 tataagcaaa ttcaatgata tgccaacagt ttggtgaatg aattgagcag gagtgccaat 180
 atcaggccct gggcgctcag ctgaccgaga taaatcatgt ttgtacagcc caaccattgt 240
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 tattccacaa attcgtctat gaggtagggc caggcacctt cgtcgtcgtg gttggataac 360
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 gcaaatagca actgccacat tccaatagaa gtctccagtg agagagactt ttgacccttt 540
 tccct 545

<210> 7132
 <211> 552
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-070-Q1-N6-F2
 <400> 7132

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 aactataact cataagaaat ctaaaagagg caccaccaat gatgggttgt tggtagaaca 120
 ctgctagggt tgtcaaagca agttggttga atggcagcaa ttgttgcagt tgtaagaggg 180
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 gttggttgaa tggaagaaac tgctgttgct gagagtaggc agcaagggtt gctagcacia 480
 gttgttgtaa ttgttgtgcc ctgatgtttt gtgccaataa atgcacaaaa ggtaactgct 540

gtaatagggc tg

552

<210> 7133

<211> 103

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-N6-F3

<400> 7133

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atagtagaat gtcattggcac ctaacattcc aagntcactt aac 103

<210> 7134

<211> 547

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-F4

<400> 7134

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gactcaacta gctagctagc cagcggctat actacagcac atagtttctt cagtggggga 180

caccgccggc agcagcgtag gggcatggag tcggctgctg caggccgcac atcgccgtca 240

gttgctgcgc tatctgcgcc gccaacagcc ccgcgacctg gccgctttgc ggctgctgct 300

gcaggatgga ctggaggacc aagccgaaga tcgcctggta ccggtgctgc ggctccacct 360

gcctgagctg ctggcaacac tgctgccgca acgactggca ctgaggcgag cagtagggcg 420

tcgccgtcgg gctgcactga tgcctcagga actcgacgca ctggcccagg atcgggggtgc 480

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atgggtg 547

<210> 7135

<211> 529

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-F5

<400> 7135

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atcttgagtt ctcaacagat gaatagacta gcaaacaaaa ccataacgat aaccctcctt 180
ccctaagtct gaggcaagct cttgctccgg attagtatcc atagctcgac gagtatgggtg 240
cagcaccata acttccaccg ttgtgaggcg ctggagctgg agcacctgga ggagacccat 300
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gacctggggc tgggtgggtccc tggggagaag cttcagccat gaaattcttg attagctgtt 420
gagcagtctg tacttgtgaa gcacttcctg taatctccac tgtcatctcg ccaggagcgc 480
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<210> 7136

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-F6

<400> 7136

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attattgaac tataactcat aagcaatcta aaagagggca ccaccaatga tgggttggtg 120
gtagaacact gttgggtttg tcaaagcaag ttggttgaat ggcagcaatt gttgcagttg 180
taagaggggtg ccagcgttag gcatagcgtg caggtagaac ggcaacaact gttgttgtgt 240
caagaaggca gcagggctca catcagctag ctggctgaat ggtagtagtt gttgctgctg 300
taaataagca gcagagttca atgctgctag ttggttgaat ggaagaaatt gctgggggta 360
ggcagcaact agctggctga atggtaattg ttgttgcaa taagcagcag agttcaatgc 420
agccagttgg ttgaat 436

<210> 7137

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-F7

<400> 7137

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agattaggct gttacaaagg ggaaggaatg ctttttacac accccaacca accaaccagg 120
tacacaacat catcccctgc aaaaccatca gctcccctg gatgtatcct tgcccagcaa 180
cccacaacac acactgatcc ccaggccttt cgctccgaaa caaccttggg ctggtccctc 240
gatcctcaaa ccggtgggct tttgtcttgg ccaaaccccc agggggggggg ggggaaatgc 300
ggggctcccc catgtgcccg ccatacttgg ggggaccaac caaccatcca aaacacactt 360
aactcatttg ggcgttagtg caccacaaaa aatgagagct gggctaaaaa ggcgaaccct 420
tgaccctgcc aaa 433

<210> 7138

<211> 95

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-G1

<400> 7138

cgagataaat ctcaatcaat atattgatta tttttaggaa acacatgccg ttatgagggc 60
accattatcg agtacatctc atatgtaatc taaaa 95

<210> 7139

<211> 470

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-070-Q1-N6-G10

<400> 7139

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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt tttttaaaaa aaaagaaagg ggggggggaa aaatatTTTT ttttaaaaaa 180
aaaaaaaaaa atttattaga aaaaaaaaaa agaggagaga gaaaaaaaaa tttttattgg 240
aaaaaaaaaa aaaaaaagtt ttttaataaa taaaggttca ggaaaaaaaa aagagtataa 300

aaaaagggtgc aaaaaaaaaa aaattcgggtt aaaaaaaatt tttttaaaaa caaaaaaaaa 360
aagaggctct taagaggaat ataaaaaata gaaaaaatat taatatttgg gggagttata 420
aaaaaaaaaa gagttttctt ttaaggaggg ggggtggtnt tataattaag 470

<210> 7140
<211> 547
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-070-Q1-N6-G11
<400> 7140

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tccgtacccg ggtggtgtta cactactcac atcaagctac atgcaagtgc ccagggcaaa 180
cgcttctaga gtatttggcc atccacctgg taccatggct ggaatattgc aggcaggaaa 240
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agttcatgaa gacacagcat ttattgtttc tgtgggcac gcatttctgt tttgtaacat 360
tattattgca gcacaaataa gaaaactgag tgtggcaggc catatttcac aactcaact 420
cagcctcggc cctaattggc tcgagaactg attccacctc ggccatgggt acttcttcca 480
gagtggctgg attccacttc ggattctggt ccttgtcaac taaaacagca cgcacacctt 540
caacaaa 547

<210> 7141
<211> 468
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-070-Q1-N6-G12
<400> 7141

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gcgaaaaaaaa aaaatggcaa aaagggataa aaaaaagcct tgactataaa ctatttaaaa 120
ggaaattttg aaattcccca attaaaaacc atgctaacct aaaaaaaaaa cccatgcctg 180
ttaaatTTTA ctggaaaaaa aaaaattcgg gtttttttat ttaataaaaa caaaaacccc 240

cgggctaagg tgggctggtg gggtttttaa tgggtcaaag gtttaaaaat ttaaacaac 300
 ccggtttttc cggttttttg gaaattgggg aagacccatg ttatttttgg gattaaaaat 360
 ctcaagggca ccaaccccaa aaaggggaac tggggctttc ttttaattgt aaacgccatt 420
 atacctccc agggctggaa aaaaaaaaaa tggttttggg taaacttt 468

<210> 7142

<211> 531

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-G4

<400> 7142

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 taggaggctg ctgggtttgt caaagcaagt tggacaaagg gcaacaattg ttgtagtgtg 180
 aagaggggtg cgggggttagc cgcaaactgc tggtagaaag gcagcaactg ttgctgtgtc 240
 aagaaggaag cacggcttgc tgcagctagc tggctaaatg gtagtaatat ttgctgctgc 300
 aaataagcag cgaggttcag tgcggccaat tggttaaatg gaagaagttg ttgttgatga 360
 gagtaggcag tagctagctg gctgaatggt aatagttggt gctgcaaata agcagcaggg 420
 ttcagtgtag atagttgggt gaatggaaga aatgttggtg ctgatagtag ggagaaaggt 480
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<210> 7143

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-G5

<400> 7143

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 ggtggggggc cttttttttt ttaaaaagcg ggcggggggg gggccccccc cgtgcttagg 180
 gggagaggcg tttctgcggg gggggggggg ggggcggctt ttttcttggg ggggggggga 240

ggcgggcgcc ccaacggggg ggggaggggg g

271

<210> 7144

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-G6

<400> 7144

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ggaaaaaatt ttttaaaaaa tgggggggaaa aaaaaaaaaa aaatttggtg gccggggggtt 120
ttaaaaaaaaa aaaaattttt ttaagggggg aaaaccccc ccaaaaaa gggggaaagg 180
gatgggtttt ttaaggccca aaaaccccg cggggggggg ttttttggg ggcaaaaaaa 240
cccccaaac ggggcttttt tgggtttttt tttcagaagg gcggggggaa acaaaccaaa 300
aaaaccttgg aaccgggggg gggggccac ccccgaggg ggggggaaaa aattggggcc 360
aaaaa 365

<210> 7145

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-G7

<400> 7145

ggcaaaaaag gtgcgggttt gacacccaaa ttatattgat cttttcaagc aataactata 60
gcgctgggat acttatagta gtaccacat tctgaaacat agtagcgcca ggaccaaata 120
taggatcgtc caaaaacata tccttaacaa gagtttaatt caataaaacc ttgctgccag 180
aacctagcag actttacaaa aaagcatact taaaacaccc tgtatgggtt ccccatgggg 240
cttttgacgt acaggcattt cacattctgc cagtttttt tcaaaaggga aacaaggaag 300
ttgaccctca tctggatggt ctgctggatc tgcttttcct ccatcgccaa attgccgacg 360
gcgacacca tgcaaaggac ctttttgagc tggaactga cgggtgcctt aatcttggtc 420
accttg 426

<210> 7146
<211> 513
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-G8

<400> 7146

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acgatgagaa cgtacccaag ttacacacct catgggctca tggcaaatag taaaattaag 180
acaaatgaaa tttctggggtt acattgtcat ctcaagggtca ggggttacgg atttcctctt 240
ggatctattc tctgtctgcg gattgtttgc cgctacatgt ttctctgatg tctcaacttc 300
attatcacca tccgggtctt tcaaacctaa attcaaattt aggtctgttc caccgccgtt 360
tttaccagaa tctcgacat cctcatctgt tgctgagat tcatccatag gggatcatt 420
gatatcagtc tttccatttg atggctcagt ttcattcgaa gatggatctc catcattagc 480
cttgttctca tcatcaaatt ggtagattct tgc 513
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<210> 7147
<211> 377
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-070-Q1-N6-G9

<400> 7147

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gccggggccc cccaaagggg nnggggggaa ggggggcccc tcccaagggg gggggggggc 120
ccggaaaggg gggggggggg aaaaagggaa aaaggggggg gggggaggaa aaaaggggtg 180
gggggggggg gggaaggggc ggggcaacaa gggggtaacc cccggggggg ggggaggag 240
ccccccccgg gggggggggg gggcgcccc aaggaacggg aaaaaaaaaa aaaagggggt 300
gggggggagg gaggtttgta atgggggggc gggggggggg ggggccacac ccgggggggg 360
gacagagggg gggggggg 377
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<210> 7148

<211> 484
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-070-Q1-N6-H1
 <400> 7148

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gaattacaac taataagcaa tctaaaagag ggccccacca atgatgtgtt gttggtagga 120
ggctgctggg tttgtcaaag caagttggac aaagggcaac aattgttgta gttgtaagag 180
ggttgcgggg ttagccgcaa actgctggta aaaaggcaac aactgttgct gtgtcaaaaa 240
ggaagcacgg tttgctgcaa ctagctggct aaatggtagt aatatttgct gctgcaaata 300
agcagcgagg ttcagtgcgg ccaattgggtt aaatggaaaa agttgttggt gatgaaagta 360
ggcagtagct agctggctga atggtaatat ttgttgctgc aaataaacag caggggttcag 420
tgtaaatagt tgggtgaatg gaaaaaattg ttgttgctga tagtagcttt ggcaaacctt 480
tttc 484
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<210> 7149
 <211> 574
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-070-Q1-N6-H10
 <400> 7149

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gagcaattac aaccaagtga aatcatttga gaggatacaa acaaatgaaa tcattagtcc 120
cttgacaccc cttgtctaca atacttacia cagggggggg acagctggag caactagata 180
agttattctg aatttctaaa ctcatctctt gtggaggtga cgggccatga tttcagataa 240
agtttctaag aacatgtttt cactggacca tggggagaac agcatcctct gcttcttgaa 300
tgatgacctc aatctcagag tccctattca cagtttccct gcatagtatg cgcctatgt 360
catagggcgt gaagccacga gatgcacctt tcttcaaaag cattgtgctg atgcgcagga 420
cacgagcaca ccgtggaggg agctcccacc catggatctt gagaagcttg atgtcttctt 480
cagcatcgag tgatttgatg tattcaatgg tttcatcatt gaatgggtca cgggcttggg 540
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gccagtaaag ccactcaaat gtacaatctt caaa

574

<210> 7150

<211> 515

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-H11

<400> 7150

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ttctttatttc tggggaagcc acaaacatca gacaaaaaac tttattattg aactataact 120
cataaaaaat ctaaaaaggg cccacccaat gggggggggg ggggggaatg cttctggggt 180
tgtcaaaaca agttgggtga atggcagcaa ttgttgagcgt tgtaaaaggg tgcccgcgtt 240
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cacaccaact agctggctga atgggaatag ttgttgctgc tgtaaataag caggagagtt 360
caatgctgtc agttgggtga atggaagaaa ttgctggggg taggcagcaa atagctggct 420
gaatggtagt tgttgttgtt gcaaataaaa agcagagttc aatgcaccta gttggttgaa 480
tggaaaaaac tgcttttttc tgaaagtagg caaca 515

<210> 7151

<211> 540

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-H2

<400> 7151

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ttgaagtata actcataagc aatctaaaag aggcaccacc aatgatgggt tggtggtaga 120
acgctgttgg gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
gggtgccagc gttaggcgca gcgtgcaggt agaacggcaa caactgttgt tgtgtcaaga 240
aggcaacagg gctcacatca gctagctggc tgaatgggtg tagctgttgc tggtgtaaat 300
aagcagcaga gttcaatgct gccagttggt tgaatggaag aaattgctgg gggtaggcag 360
cagctagctg actgaatggt agttgttgtt gcaaataagc agcagagttc aatgcagcca 420

gttggttgaa tggaagaaac tgctgttgct gagagtaggc agcaaggttt cctagcacia 480
 gttgtttag ttgttggtgcc ttgatgtttt gtgccaacia atgcacaaaa ggtaactgct 540

<210> 7152
 <211> 112
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-070-Q1-N6-H3

<400> 7152

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 tctaaaaaag tactttctta tttctgggaa gccacaaaca tcatccaaaa ac 112

<210> 7153
 <211> 528
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-H4

<400> 7153

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 catatcagta tgagaacttt attattacag tataaagcat aaaaaaatct agaagatggc 120
 accaccaatg gtgggctgct gcaataaggg ggtgggatcc gtcaaagcaa gttgggttaa 180
 tggcagcaat tggtgttggt gtaagaaggc gacattgttt gccacatcct gtgggtagaa 240
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 gaatggaagc aactgttgct gcagtaagaa ggcagcaggg ctcttgacia gttgggtgaa 420
 tggtagtagc tggtgtgcct gcaagtaagc agcaggggtc accccagcta gttgattgaa 480
 tggaagaaat tggtgttgct ggaggttaagc agcaagggtc gctgcaac 528

<210> 7154
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-H5

<400> 7154

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tcatttttga actataaccc ataagcaatc taaaaagagg gccccccaa tgatgggttg 120
ttggtaaaac ctttttgggt ttgtcaaaac aagttgggtg aatggcaaca attgttgag 180
ttgtaaaagg gtgccaccgt taggcccacac gtgcaggtaa aaccgcaaca actgttggtg 240
tgtcaaaaag gcaacagggc tcacataaac taactggcta aatgggggta actgttgctt 300
ttttaaataa acagcaaaat tcaatgctcc cagttgggtg aatgaaaaaa aatgctgggg 360
gtaggcaaca cctacctaac tgaaagggaa ttgttggtgc aa 402

<210> 7155

<211> 536

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-H7

<400> 7155

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ttcaggggat cacaatttgg aataaaaactt tattgggggt gggccagaaa atagccaaca 180
tggtaacatg ggaaactgtg ttgtctccag agagggagca tcgacggcgc caaactctct 240
gagaagtccc aagttccgct caggcgtctg cttccacaag gacaaaaact ggctgtccc 300
caagcttgte tcggcccttc agttctggca attcaatgac acaagcacac tcaacaacct 360
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gatcatcgac tacaagagcc cggctggttg cctgtacagt tccgacatgc atttctatct 480
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<210> 7156

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-070-Q1-N6-H8

<400> 7156

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 tttagatttc tt 132

<210> 7157
 <211> 587
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-071-Q1-K6-A1
 <400> 7157

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 aacgggnaca ggnnacccca aaatctcaga tccttctctgc ccgcccgcgc gtgcccgtcg 120
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 aagagctaaa agcaatgcag tacttggaga gaagagagtg tgagtacgac cagaagatat 480
 ccattgattt ctacaaggaa ggagatccct tgaaaccagc tgtgacaggc gtcttagtgt 540
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<210> 7158
 <211> 577
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-071-Q1-K6-A10
 <400> 7158

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 acaacaagga tcccagcccc gtgaagggtc acctcggggt cggcgccctac cggaccgggg 180

gggggaagcc cctagtgtg aacgtgggtca ggcgcgccga gcaaattgttg atcaataatc 240
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 tatctggctt gaacgttagg agctaccgct attatgatcc tgcaacatgc agccttcaact 540
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<210> 7159

<211> 571

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-A11

<400> 7159

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 tcgtgatatt aagtcgagca acatcttgct tgatggcagt ttcnaggccc gtgggggggg 180
 gtgggggactt gcaaagcttt tagaggatga agaatacat attactacaa tagttgcagg 240
 aacatttggc tatcttgac cagagtatat gcaatttggc agagccaccg agaagactga 300
 tgtctacagt tttggggttt tgggtactcga aatactcagt ggaaagcggc ctactgatgc 360
 atccttcatt gagaaggac taaacattgt tggatgggta aattttcttg ctagtgagaa 420
 ccgggagagg gaaattgtcg acctgaactg tgaaggagtg cagactgaga ccttagatgc 480
 cctgctctct cttgccaagc aatgtgttag ctctcgcca gaggagaggc cgacaatgca 540
 cagggtggta cagatgctgg agtcggatgt a 571

<210> 7160

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-A12

<400> 7160

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tgctgccgct ccgggtggtg ctgctcggcc gcgtccggtt cgtgcacgaa ccgttccacc 120
gggggtggcg ctgcctctac gcccgctgcg acctcctcct cggcgtccgc aagacgggat 180
cggaacgggg gcgcnggggt gtgcccctgg cgcgccttct tggtgacctg agctgcaacg 240
tcgacatgtg aagctaagag cagcgtatta tatctagcaa tctacgtgca tggatatatat 300
gcgtgaatgt tcgtctctgc gtatgtgacg tgtgtatgca aaggcaagat tacatgtacg 360
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gccaaagacc 429

<210> 7161

<211> 565

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-A2

<400> 7161

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cgatccacat cggccaggcc ggtatccagg tcggaaacgc gtgctgggag ctgtactgcc 180
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tttttggtga ccttgaaccc actgtcatcg atgagggtgag gactggcacc taccgccagc 360
tcttccaccc tgagcagctc atcagtggga aggaggatgc cgccaacaac ttgcccgtg 420
gtcactacac cattggcaag gagattgttg acctgtgcct tgatcgcacg aggaagcttg 480
ccgacaactg cactggcttc cagggttcc tcgtcttcaa cgctgttggt ggaggaacgg 540
gctctggcct tggttccctc ctctt 565

<210> 7162

<211> 580

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-A3

<400> 7162

gccaatagc acatanaagc acatagtgt ccaacaatgg cagccaaaaa ttttgcttcc 60
ttatgctcct tgggtctttct gcaagtgttg ctaccgcaac cattttccca caatgctcac 120
aagctcctat agcttccttt cttcccccat acctctcacc agcgggtgtct tcaatgtgtg 180
aaaaccaat tgttcaaccc tacaggatcc aacaggcaat cgcaacaggc atcttaccat 240
tatcaccctt gttcctccaa caaccgtcag ccctattaca gcagttacct ttggtccatt 300
tgggtggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg 360
catactctca gcaacatcag tttcttccat tcaaccaact ggctgcattg aactctgctg 420
cttatttgca acaacaatta ccattcagcc agctagttgc tgctacccc cagcaatttc 480
ttccattcaa ccaactagca gcattgaact ctgctgctta tttacagcag caacaactac 540
taccattcag ccagctagct gatgtgagcc ctgctgcctt 580

<210> 7163

<211> 584

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-A4

<400> 7163

agcgtccgcc aactacacat anaagcacat ggtgtaccaa caatggcagc caaaaatttt 60
gcctccttat gctccttggc ttttctgcaa gtgctgctac ggcgaccatt ttcccgcaat 120
gctcgcaagc tccatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg 180
tatggtgaaa acccaattct tcaaccctac aggatccaac aggcaatcac agctggcatc 240
ttacctttat cacccttggt cctccaacaa tcatcagccc tattacatca gttaccttg 300
gtgcatttat tggcacaaaa catcaggga caacaactac aacaacttgt gctagcaaac 360
cttgctgcct actctcagca acagcagttt cttccattca accaactagc tgcattgaac 420
tctgcttctt atttgcaaca acaacaacta ccattcagcc agctacctgc tgctacccc 480

cagcaatttc ttccattcaa ccaactggca gcattgaact ctcttgetta ttacagcag 540
 caacaactac taccattcag ccagctagct ggtgtgagcc ctgc 584

<210> 7164
 <211> 555
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-071-Q1-K6-A5
 <400> 7164

tgnacattca gnaaacacac ctagcgaacg cactagcaac gacctaacaa caatggctac 60
 caagatttat cctcttttgc gcttcttgcc ctttttgtga gcgcaacaaa tgcgttcatt 120
 attccacaat gtcacttgc tcttagtgcc attattccac agttcctccc tccagttact 180
 tcaatgggct tcgaacaccc agctgtgcaa gcctacaggc tacaacaagc gcttgcggcg 240
 agcgtcttac aacaaccaat tgcccaatta caacaacaat ccttggcaca tctaaccata 300
 caaaccatcg caacgcaaca gcaacaacaa tttctaccag cactgagcca actagctgtg 360
 gtgaaccctg tcgcctactt gcaacagcag ttgcttgcac ccaaccact tgctctggca 420
 aacatagttg cataccaaca acaacaacaa ttgcaacagt ttctaccagc gctcagtcaa 480
 ctagccatgg tgaaccctgc cgcctaccta caacagcaac aactgatttc atctagccct 540
 ctgctgtgg ttaat 555

<210> 7165
 <211> 581
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-071-Q1-K6-A6
 <400> 7165

ggcggctgcg gcggnacacg nagcgaagga ggaggacagc agcagcaggc ggcgccngag 60
 agcggcatcc cactcagtgc ttgcaaccat ggctagggga ttgaagaagc acttgaagag 120
 gctcaatgcy cccaagcatt ggatgctcga caagcttggc ggagcttttg ctcccaagcc 180
 atcttctgga cctcacaagt ccagggagtg ccttcctctg atcctcatca tcaggaacag 240

gctcaagtat gctctgaact accgtgaggt catttctatc ctgatgcaac gccatgtact 300
 tgttgatggc aaggtcagga ctgacaagac ctaccctgct gggttcatgg atgtcatttc 360
 catccctaag acaatggaga actacaggct gctttatgac accaagggcc gcttccgtct 420
 tcaccaatc agggatgagg atgccaaagt caagctctgc aaggtgaggt ccgttcagtt 480
 tggccagaag ggcattcccct acctgaacac ctacgacggc cgtaccatcc gctaccccca 540
 cccgctcatc aaggccaacg acaccatcaa gatcgatctg g 581

<210> 7166

<211> 583

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-K6-A7

<400> 7166

agcgtccgcy cactacacga cctacaccat ggctaccagg aattagccct ccttgcgctt 60
 cttgcccttt tagtgagcgc aacaaatgcy ttcattattc cacagtgtc acttgctcct 120
 agtgccatta ttccacagtt cctcccacca gttacttcaa tgggcttcga acatccagcc 180
 gtgcaagcct acaggctaca actagcgctt gcggcgagcg cettacaaca accaattgcc 240
 caattgcaac aacaatcctt ggcacatcta accctacaaa ccattgcaac gcaacaacaa 300
 caacaacaac agtttctgcc atcactgagc cacctagccg tgggtgaacc tgctacctac 360
 ttgcaacagc agctgcttgc atccaacca cttgctctgg cgaacgtagc tgcataccag 420
 caacaacaac agctgcaaca gtttatgcc gtgctcagtc aactagccat ggtgaaccct 480
 gccgtctacc tacaactact ttcattctagc ccgctcgcg tgggcaatgc acctacgtac 540
 ctacaacaac agttgctgca acaaattgta ccagctctga etc 583

<210> 7167

<211> 582

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-A8

<400> 7167

agcgtccggn gaacancaag caacatagna agtgggaagc gatagcaaca atagagcaac 60

aatggcgacc aagatTTTTc cctccttatg ctccttgctc tttctacatg tgttgctaac 120
gcgacaattt tccctcaatg ctcacaagct cctatagctt cccttcttcc ccatacctt 180
ccatcagga gggcttcnag tatgtgaaaa ccagctctt caaccatata ggcttcaaca 240
agcaatcgca gcaagcaaca tacctttatc gcccttggtg tttcaacaat caccagccct 300
atctttggtg cagtcattgg tacaaaccat cagggcacia cagctgcagc aactcgtgct 360
acctgtgatc aaccaagtag ctctggcaaa cctttctccc tactctcagc aacaacaatt 420
tcttccattc aaccaactgt ctacactgaa ccctgctgct tatttgcagc aacaactatt 480
accatttagc cagctagcta ctgcctactc tcagcaacaa caacttcttc catttaacca 540
attggccgca ctgaaccccg ctgcttattt gcagcagcaa at 582

<210> 7168

<211> 566

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-B1

<400> 7168

gcaactnana agcacaatat gtaccaacat ggcagctaaa atttttgctt ccttatgctc 60
cttgggtctt ctgcaagtgc tgctacggcg accattttcc cacaatgctc acaagctcct 120
atagcttccc ttcttcccc gtacctctca ccaacgggtg cttcggtatg tgaaaacca 180
attcttcaac cctacaggat ccaacaggca atcgcagctg gcattctacc tttatcacc 240
ttgttctctc aacaatcatc agccctatta cagcagttac ctttgggtgca tttattggca 300
caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc tgctactct 360
cagcaacagc agtttcttcc attcaacaa ctagctgcat tgaactctgc ttcttatttg 420
caacaacaac aactaccatt cagccagcta tctgctgcct acccccagca atttcttcca 480
ttcaaccaac tgacagcatt gaactctct gcttatttac agcagcaaca actactacca 540
ttcagccagc tagctggtgt gagccc 566

<210> 7169

<211> 571

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-B10

<400> 7169

agcgtccggt gnaattgtgc agtcaattcg tctgggggta ggtttcaaat cgccatccca 60
tacaggnact gcagatactg agttgggtacg tgagttgagc cagcaatttc ctgcagttat 120
acctcttgcc ttgattctca agaatttttg gctgaccgga gtttggacca cccctattca 180
ggtgggggtga gctcttactg tttgggtgctg ttaattgttc gttttctcca gcatgagcat 240
catcttggtc gacctattaa taaaaatctg ggcagccttt tgatggattt ctgtacttc 300
tttgggaaca tatttgatcc acgccatatg cgcatttcta tccaaggaag tggaatttat 360
ttgaatcgag aaagagggca aagcattgac ccgattcaca tagatgatcc acattgccct 420
gctaacaatg tgggcaggaa ttgtttccgc attcaccaat gtattaaggc atttgctgat 480
gcgtttgctg ttcttgagaa tgagctactg cagttcagtt cagaatgtag catgcctgta 540
tcttcattca atatactaaa gaaaataatc c 571

<210> 7170

<211> 504

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-B11

<400> 7170

ananaaacn ntttttttg tggggggggg ggnnnnnann nnanannnnn nnaannnntt 60
ttttttatag ggggggtgta aaaannattt ttttgtgtgt gtatatcttct tttttttatt 120
ttttntttc tntttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180
ttttttttt tttttttttt tttctttttt tttttttttt tttatttttt tttttttttt 240
ttttctatt tttttttttt tcctttttta tttttttttt ttcttttttt catttttttt 300
tttttttta tttttttttt tttttttttt ttntttttta tttttcatat ttttttattt 360
ttttcctttt ttctttttatt tttttttttt cttttttttt tttttctttt cttttntntt 420
tttatnttct ttttttttcc tttatttttt tttttttttt actacccttt tttattttcc 480

ccctcccccc cccccccccc cccc

504

<210> 7171

<211> 586

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-B12

<400> 7171

nacaacatca acaacaattc cagggggggg gagaangggc aacaaccaca acagcctcag 60
caatatcagc agggccagga aaaacacaac agcaacaatg tcattgccag gagcagcaac 120
agactacaag gtgcagctat aactactata gcagtagctc aaatctaaaa aatgggggaa 180
tgcgggggca gcagtgcagc ccttttgtaa tgccttttct ccaatcacgt ttgatacaac 240
caagtagctg ccaggtattg cagcaacaat gttgtcatga tcttaggcag attgagccac 300
aatacattca ccaagcaatc tacaacatgg ttcaatccat aatccaggag gagcaacaac 360
aacaaccatg tgagttatgt ggatctcaac aagctactca aagtgcggtg gcaatcttga 420
cagcagcaca atacctacca tcaatgtgcg gcttgtacca ctcatctac caaaataatc 480
catgcagcag caatgacatt agtgggtgtt gcaattgaag aattgtgtct acctagccgt 540
tatactcata taacgggtgtt aagcaataaa gtaccatata ttaaag 586

<210> 7172

<211> 569

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-B2

<400> 7172

ncacatagna aagcacaata gtgtaccaac atggcagcca aaatttttgc ttccttatgc 60
tccttggtct ttctgcaagt gttgctaccg cnaccatttt cccacaatgc tcacaagctc 120
ctatagcttc ccttttcccc ccatacctct caccagcggg gtcttcaatg tgtgaaaccc 180
caattgttca accctacagg atccaacagg caatcgcaac aggcatttta ccattatcac 240
ccttgctcct ccaacaaccg tcagccctat tacagcagtt acctttgggtc catttggtgg 300

cacaaaacat cagggcacaa caactacaac aacttgtgct agcaaaccctt gctgcatact 360
ctcagcaaca tcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt 420
tgcaacaaca attaccattc agccagctag ttgctgcta ccccagcaa tttcttccat 480
tcaaccaact agcagcattg aactctgctg cttatttaca gcagcaacaa ctactaccat 540
tcagccagct agctgatgtg agccctgct 569

<210> 7173

<211> 583

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-B3

<400> 7173

ggccaaaccc tttcgcgcgn agcggccccc tctcttctt ctctctcca ccaccgccct 60
cccccttgcca tttttgccgc aggagccgcc gccatccgat ccggaagagg gaggaggggg 120
gaggaggagg gatctgtgtc ccgattcgat tggagctctc gtccccggcg gtccaggatg 180
gtgcgggggca agacgcagat gaagcggata gagaaccggg ccagtcgcca ggtcaccttc 240
tccaagcgcc gcaacggcct gctcaagaag gcgttcgagc tctccgtcct ctgcgacgcc 300
gaggtcgcgc tcgtcgtctt ctccccgcgc ggcaagctct acgaattcgc cagcggaagt 360
gcccagaaaa caattgaacg ttatagaacg tacacaaagg ataatgtcag caacaagaca 420
gcacatcagg acattgagca agtaaaagct gatgctgagg gcctggcaaa gaaactggaa 480
gcacttgaag cttacaaaag aaaacttttg ggtgagaggt tggaagaatg ctcccttgaa 540
gaactgcacn agtttggaag tgaaactcga aaagagcctt cat 583

<210> 7174

<211> 565

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-B4

<400> 7174

gttcctacca cactgaccac ctacctggtg gaacctgtcg cctacttgca acagcagctg 60

cttgcatcca acccacttgc tctagcaaac gtagttgcaa accagcaaca acaacaactg 120
 caacagtttc tgccagcgct tagtcaacta gccatggtga accctgccgc ctacctacaa 180
 cagcaacaac tgctttcatc tagcccgctc gctgtggcca atgcacctac atacctgcaa 240
 caagaattgt tgcaacagat tgtaccagct ctaactcagc tagctgtggc aaaccctgtt 300
 gcctacttgc aacagctgct tccattcaac caactaacta tgtcgaactc tgttgcgtag 360
 ctacaacagc gacaacagtt acttaatcca ttggcagtgg ctaaccatt ggctcgctgcc 420
 ttctacagc agcaacaatt gctgccatac aaccggttct ctttgatgaa tctgtcttg 480
 tcgaggcagc aaccatcgt tggaggtgcc atcttttaga ttacatatga gatgtactcg 540
 ataatggtgc cctcataccg gcatg 565

<210> 7175
 <211> 579
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-071-Q1-K6-B6

 <400> 7175

gccagcaccg nattccggcc ctccgccggc tgggtctccgc tccctcgac tcgcagctcc 60
 ggctgctatt ctgcagaagt cggtagattg gttttcctca tgggtcgac catcaagaag 120
 gccagaagg ctcaatccaa gaagtccaag aagaaaactg aatcgctctc gtcgtccaac 180
 cctgcgattg cctctggtcc ggctaaggct tggcaaccgg gtgtagatac actggaagat 240
 ggggaggagc tgcagtttga tctcaggct tacaattatc tccgaggttt tggcattggc 300
 tgggtcttgc tgagttttga tgttgctgct gatcaacttg gactcgctccg ttcagagttc 360
 cctcatacat tctatggtgt tgctggaacg caggctggtg taatctttat gccttgaaaa 420
 cctaagcatt gacaaaagta gccattgtta ctatcaaatac ttgaaatgct tttgatgtct 480
 atcacatagt gctcttttgc tatctataaa taaactataa cttgtacaag aattaatttt 540
 gtactgttgc tctgctaag atatttnntt gaattgaaa 579

<210> 7176
 <211> 561
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-071-Q1-K6-B7

<400> 7176

attgctccta tgccatttcc aattcctccc acagtcttca tgggcttcng acatccagcc 60
gtgcaagcct acaggctaca acaagcgctt gggcgagcg tcttacaaca accaattgcc 120
caattacaac aacaatcctt ggcacatcta accatacaaa ccatcgcaac gcaacagcaa 180
caacaatttc taccagcact gagccaacta gctgtggtga accctgtcgc ctacttgcaa 240
cagcagttgc ttgcatccaa cccacttgct ctggcaaaca tagttgcata ccaacaacaa 300
caacaattgc aacagtttct accagcgctc agtcaactag ccatggtgaa cctgcccgcc 360
tacctacaac agcaacaact gatttcatct agccctctcg ctgtggttaa tgcacctaca 420
tacctgcaac aacagttgct gcaacagatt gtaccagctc tgactcagct agctgtggca 480
aaccctgctg cctacttgca acagctgctt ccattcaacc aactgactgt gtcgaactct 540
gctgcgtacc tacaacagcg a 561

<210> 7177
<211> 141
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-K6-B8

<400> 7177

tccgttgctt tgcaactcaa cgtgttctac caacaacca tcattggtgg tgccctcttt 60
tagattgctt atgagttata gttcaataat gaagtttttt ggatgatgtt tgtggcgctc 120
cagaataaga aagtcatttc t 141

<210> 7178
<211> 585
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-K6-B9

<400> 7178

agtatttgca ctcatgcac acaaacatcc ttctatcagt accatcaatc atcattcatc 60

ttagtagtat aggcacaaaa tcaaatctgc aacatcaatt atctaactcc aaaaccatga 120
 agctggtgct tgtggttctt gctttcattg ctttagtatac aagtgtttct tgtacacaga 180
 caggcggctg cagctgtggt caacaacaaa gccatgagca gcaacatcat ccacaacaac 240
 atcatccaca aaaacaacaa catcaaccac caccacaaca tcaccagcag cagcaacacc 300
 aacaacaaca agttcacatg caaccacaaa aacatcagca acaacaagaa gttcatgttc 360
 aacaacaaca acaacaaccg cagcaccaac aacaacaaca acaacaacag caccaacaac 420
 aacatcaatg tgaaggccaa caacaacatc accaacaatc acaaggccat gtgcaacaac 480
 acgaacagag ccatgagcaa caccaaggac agagccatga gcaacaacat caacaacaat 540
 tccagggtca tgacaagcag caacaaccac aacagcctca gcaat 585

<210> 7179
 <211> 562
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-071-Q1-K6-C1

 <400> 7179

ngcacatgta ttcttacctc anagcttgct ctgaactctt catctcaaac cagtcctcta 60
 ggaaaaatat gctgatgcaa accgtgtatc tgctatcatt ttggggcggag gcactggatc 120
 tcagctcttt cctctgacaa gcacaagagc tacgcctgct gtacctgttg gaggatgtta 180
 caggcttatt gatatcccta tgagtaactg cttcaacagt ggtataaata agatatttgt 240
 gatgagtcag ttcaattcta cttcgcttaa ccgccatatt catcgtagat accttgaagg 300
 cgggatcaac tttgctgatg gatctgtaca ggtattagcg gctacacaaa tgacctgaaga 360
 gccagctgga tgggtccagg gtacagcaga ctctatcaga aaatttatct gggtagctga 420
 ggattattac agtcacaaat ccattgacaa cattgtaatc ttgagtggcg atcagcttta 480
 toggatgaat tacatggaac ttgtgcagaa acatgtcgag gacgatgctg atatcactat 540
 atcatgtgct cctgttgatg ag 562

<210> 7180
 <211> 282
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-071-Q1-K6-C10

<400> 7180

aaaaaannna aaaaaaaaaa aaaaanannaa aaaaanaaan aaananaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaanan aaanaaaaaa 120
aaaaaaaaana aaaaaaaaan aaaaaaaaaa aaaaanaaaaa anaaaaaaa naannaaaaaa 180
aaaaaaaaaaa aaaaanaaaaa aaaaaanaaa aaaaaanaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaaa aaaaaaaaaa aaaaanaaaaa aaaaccccc cc 282

<210> 7181

<211> 586

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-071-Q1-K6-C12

<400> 7181

cactagcaca tanaagcaca tggggtcgca cgggtggcac caaaaatttt gctccttat 60
gctccttggt atttctgcaa gtgctgctac ggcgaccatt ttcccgaat gtcacaagc 120
tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg gggggggggg 180
cccaattctt caaccctaca ggatccaaca ggcaatcgca gctggcatct tacctttatc 240
acccttggtc ctccaacaat catcagccct attacagcag ttacctttgg tgcatttatt 300
ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta 360
ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta 420
tttgcaaaa caacaactac cattcagcca gctacctgtt gcctaccccc aacaatttct 480
tccattcaac caactggcag cattgaactc tcctgcttat ttacagcagc aacaactact 540
accattcagc cagctagctg gtgtgagccc tgctaccttc ttgaca 586

<210> 7182

<211> 576

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-C2

<400> 7182

ctgccgtcac ctacattact cacgctccan atggagactc gcaccatgaa gtgctgatcg 60
ttgcccttgc tctcctggcg ctgctgcca ggcgcgcctc cagtacaagc ggcggctgtg 120
gctgccagac accaccgttt catctaccgc ctccgttcta tatgccgcct ccgttctatc 180
tgccgccgca gcagcagccg cagccatggc aataccccac tcaaccaccg cagctaagcc 240
cgtgccagca gttcggatcc tgcggcgctc gcagcgtcgg cagcccgttc ctgggccagt 300
gcgtcgagtt cctgaggcac cagtgcagcc cggcggcgac gccctacggc tcgccacagt 360
gccaggcgct gcagcagcag tgctgccacc agatcaggea ggtggagccg ctgcaccggt 420
accaggcgac atacggtgtg gtcctgcagt ccttcctgca gcagcagccg cagggcgagc 480
tcgcgggcgt gatggcgggc caggtagcgc agcagctgac ggcgatgtgc ggccctgcagc 540
tgcagcagcc aggtccctgc ccttgcaacg cagctg 576

<210> 7183

<211> 596

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-C3

<400> 7183

gtggatcgat gagacctgat gccanatgtt ngaactcggg tggttgcaaaa taagaaatag 60
ctgttaagaa agtcaaaacc atcaagttct tgggactaca tgaagagact caaataccta 120
agggttggtc gagcccatth gatgtgattt gccagcgaat ggaacagagg atggcctatg 180
gccacaatga gcaagacatg gtactgctcc accacgaagt cgaggtggaa taccgggacg 240
ggcanaccog ccgaaaagca ccaagcgacg ctactggagt tcgggaaggt tgaaaatggc 300
aggccacca ctgccatggc gctgaccgtc ggcattccag cagcaatagg ggccctgcta 360
ttgctaaaga ataaggtcca gacgaaagga gtgatcaggc ctctgcaacc ggaaatctac 420
gttccagcat tggagatctt ggagtcgtcg ggcacaaagc tgggttgagaa agtggagact 480
tgaaagtccc ctgatacaca gataaagata gtatgatata gcagggcaca tgtatctttt 540
gtattaactc cgttctggaa tatatatattg tgaactaaaa tgtgacaaat aaaaag 596

<210> 7184
 <211> 568
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-071-Q1-K6-C4

 <400> 7184

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gcaacatagn aagcacaata gtgtaccaac atggcagcta aaaattttgc ctccttatgc   60
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ctatagcttc ccttcttccc ccgtacctct caccaacggg gtcttcggnt atgtgaaaac  180
ccaattcttc aaccctacag gatccaacag gcaatcgcag ctggcatctt acctttatca  240
cccttggttc tccaacaatc atcagcccta ttacagcagt tacctttggg gcatttattg  300
gcacaaaaca tcagggcaca acaactacaa caacttggtg tagcaaacct tgctgectac  360
tctcagcaac agcagtttct tccattcaac caactagctg cattgaactc tgcttcttat  420
ttgcaacaac aacaactacc attcagccag ctatctgctg cctacccccca gcaatttctt  480
ccattcaacc aactgacagc attgaactct cctgcttatt tacagcagca acaactacta  540
ccattcagcc agctagctgg tgtgagcc                                     568
  
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<210> 7185
 <211> 578
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-071-Q1-K6-C5

 <400> 7185

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agcgacagct cgncaaanat tgtgagaatg atccggcgct ganaagagag gctaagatcg   60
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gccaaaggcga ggtcgagcgg cagaggctca gggacctgca gtgctggcag gaggtccagg  180
agagcccgtc cgacgcgtgc cgccaggtcc tcgaccggca gctaaccggc ggccggcgctc  240
gcggcccgtt ccggtggggc accgggctcc ggatgcggtg ctgccagcag ctccaggacg  300
tgagccgcga gtgccgtgc gccgccatcc ggagcatggt caggggctac gaggaggcca  360
  
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tgccgcctct ggagaaaggc tgggtggcatg gngggcggca gcagcagccg ccgccgcagg 420
gaggaggagg aggacagggg ggctactact acccctgcag ccgggcagga gagggatacc 480
aaacgcagat gtatccaccg tgctgtcccg gcaccaccgg gccaaaggatc ggccgcgtga 540
ggcttacgaa ggcccgggag tacgcgcggg ggttgccg 578

<210> 7186

<211> 586

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-C6

<400> 7186

agccaagact ttggnagtga gggtattcca ggtgcaacca gcattggaaa gaggttcagg 60
cttatctgta tgatgggttac tgggaagata tcggtaccat tgcggcattt tataatgcaa 120
acttggaat aaccaagaag ccaataccag atttcagctt ctatgaccgt ttgctccaa 180
tttatacaca acctcgacac ctgccacctt caaggttctt gatgctgatg tgacagacag 240
tggtattggt gaaggatgtg ttattaaaaa ctgcaagata aaccattctg tagttggact 300
ccgatcttgc atatctgaag gtgctatcat agaggacagt ttactaatgg gtgcggacta 360
ctatgagaca gaagctgata aaaaactcct tgccgaaaaa ggtggcattc ctattggtat 420
tgggaaaaat tcatgcatca ggagagcaat cattgacaag aatgctcgaa ttggagacaa 480
tgttaagata ctcaatgctg acaatgttca agaagctgca atggagacan acgggtactt 540
catcaaaggt ggaattgtca cagtgatcaa ggatgcttta ctccct 586

<210> 7187

<211> 571

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-C7

<400> 7187

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gccagcagtt cggatcctgc ggcgtcggca gcgtcggcag cccgttctg ggccagtgcg 120

tcgagttcct gaggcaccag tgcagcccgg cggcgacgcc ctacggctcg ccacagtgcc 180
 aggcgctgca gcagcagtgc tgccaccaga tcaggcaggt ggagccgctg caccgggtacc 240
 aggcgacata cgggtgtggtc ctgcagtcct tcttcagca gcagccgcag ggcgagctcg 300
 cggcgctgat ggcggcccag gtagcgcagc agctgacggc gatgtgcggt ctgcagctgc 360
 agcagccagg tccctgccct tgcaacgcag ctgccggcgg tgtctactac tgaggaaact 420
 atgtactgta gtaataatgt aatggagccg ctgactagct acctataggg ctatagctag 480
 ttcactcggt tagcggcgat gagtaacgga gtgtcaccca tcaccatggg tngncagttg 540
 gagcaatgac ctgaatgaac cattgaaatg g 571

<210> 7188
 <211> 561
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-071-Q1-K6-D1
 <400> 7188

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 gttcctcagc tcaaagaaat ctggcaaggg taagaagcca ggcaagggtg gcaatcgatt 180
 ttggaagagc attggccttg gtttcaagac tcccagggaa gcaattgaag ggacctacat 240
 tgacaagaaa tgtccattca ctggaaccgt ttctatcaga ggcagaatta ttgctggaac 300
 atgccacagt gctaaaatga acagaaccat cattgttcgc aggaactacc tccactttgt 360
 taagaaatac cagaggatatg aaaagaggca ctccaacatt ccagctcaca tctccccatg 420
 cttccgtgtg aaggaaggcg accatgtcat cattggccag tgcaggcccc tatcaaaaac 480
 tgtgagggtc aatgtcgta aagtcattcc agctggatct gctgctgctg gcaagaaggc 540
 tttcacgcga gcctgagttt a 561

<210> 7189
 <211> 565
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-071-Q1-K6-D10

<400> 7189

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gtcaattgat gagtccaggc atggggataa tgtagacat ggggcaactt ctagcatgtc 120
tcagtatagc tcaaagcaaa atcacaaatc aaatgatcca ggctcgtgatc tttcaattga 180
ggggttggag aaattctcat tgggtactaa atttgcacga gatactacat caagcctttt 240
tcgagacaat agtgggtgctc atgcttatgg acgccaacaa catcaatata ttttggataa 300
taaatcaact aataaacata aaaatcagta tgtaacacca gaaaaggctt cggcaccctc 360
agcaacactc gagtccagatc cattacctct cgtatgggga aaacaacgag atcacccgtt 420
aagtgtcgaa gagtggacat ctttcttaga tcgtgaaggt aggattatgg attcaaaggc 480
actgaggaaa aaggttttct atgggggagt tgatcatgct ttgagaaaag agtctggaaa 540
ttcttgttgg ggtatcatga atatg 565

<210> 7190

<211> 563

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-D11

<400> 7190

gnaacgcagn agccccagcc tagcgcggc ccgcccgcgc atcagccatg gcgctggccg 60
ctcgctcgt ctcgcgtcc cgtcagctat attcggttca agccactttg gggaatggag 120
gtgtcactca agttcgctcc tttgccaagg atgcagctcc agctgaccgt cctcctggga 180
ggggggatga tctcctgaag ggcataattct ttgaggtaaa gaagaagttt gagacagctc 240
ttggtgttct taaaaaggaa aagatcacta ttgatccaga tgaccagcg gcagtttctc 300
gttatgcca agtcatgaag actgtaaggg aaaaggcgga tcttctctct gattctcaaa 360
ggattaaata taccattgag accttcacca agggcatccc tgatgcacgg acttacttga 420
atactcttca acagctcaga ataaagagtg gtcttataga tcatcttgga attgagcctt 480
tgatgatgga agctcttgag aagattgaga aggacattaa gaaaccactt ttgaggagcg 540

acaagaagaa catggccacc etc

563

<210> 7191

<211> 586

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-D12

<400> 7191

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actttccctc cttatgctcc ttgctctttc tgcattgtgt gctaacgcga caattttccc 120
tcaatgctca caagctccta tagcttccct tcttccccca taccttccat caatgggggg 180
gggggggtgn tgaaaaccca gctcttcaac cctataggct ccaacaagca atcgagcaa 240
gcaacatacc tttatcacc ttgtttcaac aatcgccagc cctatctttg gtgcagtcatt 300
tggtacaaac catcaaggca cagcagctgc agcaactcgt gctacctgtg atcaaccaag 360
tagctctggc aaacctttct ccctactatc agcaacaaca atttcttcca ttcaaccaac 420
tatctacact gaacctgct gcttatttgc agcaacaact attaccattc agccagctag 480
ctactgccta ctctcatcaa caacaacttc ttccatttaa ccaattggcc gcactgaacc 540
tcgctgctta ttgagcagc caaatattac taccatttag ccagct 586

<210> 7192

<211> 558

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-K6-D2

<400> 7192

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cggtttcgtg ggtgagcgga tcgagatggc ggcgtcggat gttgagtacc gctgcttcgt 120
cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180
cgaggctcctc gaggccaaga tcctcctcga tcgggagacg cagaggctcc gcggcttcgg 240
cttcgtcacc ttctccacgg aggagccgat gcggaacgcc atcgagggca tgaacggcaa 300
ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg gccgtggagg 360

cggcggcggc ggcgggtacg gtggtggccg tggaggcggc ggctacggcg gtggcgggcg 420
 ccgtgatggc ggcggcggtc acggcggtgg cggcggtac ggtggtggcg gcggcggtc 480
 cgggtggtgt ggcggcggtc acggcggtgg caaccgtggc ggcgggtacg gcaactccga 540
 cggaactgg aggaactg 558

<210> 7193

<211> 557

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-D4

<400> 7193

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 gcgccgccgc ggtctccgac gagcccaaac tcaacaagta cagcgcgcg atcacggagc 180
 ccaagtcgca gggcgccctc caggccgtgc tctacgggggt tggcctcacc gacgccgacc 240
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 tccgattcaa caccgtcggc gtcagcgacg ccatctccat gggcaccggg ggcattgtgc 420
 acagcctcca gtcccgcgac ctcatcgccg acagcatcga gaccgtcatg ggcgcgcaac 480
 actacgacgc caacatctcc atacctgggt gcgacaagaa catgccaggt acaataatgg 540
 caatgggacg gcttaat 557

<210> 7194

<211> 563

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-D5

<400> 7194

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 ttccttatgc tcttgggtct ttctgcaagt gctgctaccg cnaccatttt ccacaaatgc 120

tcacaagctc ctatagcttc ctttcttccc ccatacctct caccagcggg gtcttcaagt 180
atgtgaaaac ccaattcttc aaccctacag gatccaacag gcaatcgcag caggcatctt 240
acctttatca cccttggttc tccaacaacc gtcagcccta ttacagcagt tacctttggt 300
gcatttggtg gcacaaaaca tcaaggcaca acaactacaa caacttgtgc taggaaacct 360
tgctgcctac tctcagcaac agcagtttct tccattcaac caactggctg cattgaactc 420
tgctgcttat ttgcaacaac aactaccatt cagtcagcta gctgctgcct acccccagca 480
atttcttcca ttcaaccaac tggcagcatt gaactctgct gcttatttac aacagcaaca 540
gctaccacca ttcagccagc tag 563

<210> 7195

<211> 204

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-K6-D7

<400> 7195

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caacagagag aagcggggag gagaggccag gagaaaacgc gagcgaggag agagaagaaa 120
aagaagagca taaaaaacca caaagggaga agggggaggg aacaagaaaa acagagggac 180
agaagggaga aacaggtagc agaa 204

<210> 7196

<211> 547

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-D8

<400> 7196

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gggttttggt gaggggggat ggcggcggct gatgtggagt accgttgctt cgtcggcgga 120
cttgctggg ccaccagcaa cgagtcgctg gagaatgcct tcgcctccta cggcgagatc 180
ctcgactcca aggtcatcac cgaccgggag acggggaggt cccgcggctt cggttcgtt 240

acctttctcct ccgagaactc catgctcgac gctatcgaga acatgaacgg caaggagctc 300
gacggccgta acatcacctg taaccaggcc cagtcccgtg gggcgggcgg cggcgggcggc 360
ggcgggtggct acggcgggcg tcgcgggcgg ggcggctatg gtggcgggcg ccgtgacggc 420
ggttatggcg gcggtggcgg ctacggcggt cggcgcgagg gtgggtggcg cggctacgga 480
ggcgggtggcg gctacggcgg tcggcgcgag ggtgggtggg gcggtacgg cggcgggcggc 540
ggcggct 547

<210> 7197
<211> 372
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-071-Q1-K6-D9

<400> 7197

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aaccggagga ggcagtttca gctcgagcta tggttgctgg gaaagctgcg taggcgcttg 120
ttaattgctt atattgtatc tattattatt attataagta tttatgtgtc gagtaaaata 180
gaaaaaaaaa cagtgtgtct gctgtatact ccaccccttt gctattgggt caatgttggc 240
ttgataaata tggtcgtgta cagtacagt tatgcgtcag tccggttagt atcatgtatg 300
ctttgcctct atttacagaa cttggtttta taactttttt tcgtcacctt ttatatctaa 360
atatttttta at 372

<210> 7198
<211> 578
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-071-Q1-K6-E1

<400> 7198

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gtcattagca ttaacctcc aacaaccata tgctctattg caacagccat ccttagtgca 120
tctgtatctc caaagaatcg cggcacaaca actacaacaa cagttgctac caacaatcaa 180

tcaagtagtt gcagcgaacc ttgctgctta cctpcagcaa caacagtttc ttccattcaa 240
tcaactagct ggggtgaacc ctgctatcta cttgcaggca caacagctac taccatttaa 300
ccaacttgct gggagccctt atgccttctt actgcaacaa cagcttctgc cattccatct 360
gcaagctgtg gcaaacattg ttgctttctt gagacaacaa catttggtgc cattttaccc 420
acaagttgtg ggaaacatta atgccttctt gcaacagcaa caattgctac cattctaccc 480
acagaatgtg gcaaacattg ttgccttctt acaacaacaa caattgctac catttagcca 540
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<210> 7199

<211> 574

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-E10

<400> 7199

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aaattttgct tccttatgct ccttggtctt tctgcaagtg ctgctaccgc naccattttc 120
ccacaatgct cacaagctcc tatagcttcc tttcttcccc catacctctc accagcggtg 180
tgttgagtat gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcgagca 240
ggcatcttac ctttatcacc cttgttctc caacaaccgt cagccctatt acagcagtta 300
cctttggtgc atttggtggc aaaaaacatc aaggcacaac aactacaaca acttggtgta 360
ggaaaccttg ctgcctactc tcagcaacag cagtttcttc cattcaacca actgggtgca 420
ttgaactctg ctgcttattt gcaacaacaa ctaccattca gtcagctagc tgctgcctac 480
ccccagcaat ttcttccatt caaccaactg gcagcattga actctgctgc ttatttacia 540
cagcaacagc taccaccatt cagccagcta gctg 574

<210> 7200

<211> 590

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-E11

<400> 7200

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tgggaagtct tcttcggcga cgagcaccca ccaggtcata tctctgcaat gggtgactac 120
acaatccaga ttagcaccaa gctcattgac cagcttgctc gtgatgacga gaagtaaaac 180
gaagccggag ggggggccta agaagaagcc caccgtccag ccacatgaag agcccctgga 240
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tccccctatg tttctgccag tgaccccttc tccccgccca cccccggcca caatgccgga 360
gggtgaagcc attcgttccg tcttgaaaga aagcgaggcg cttctcaaga agctggagaa 420
ccaggaaact ggggcacgcc aagagctcag caagagagca aaggagctgc acgacaagga 480
gttcaagcta ccataccaga aacccatgcc ctgcaccag gagagggcag gctgccttga 540
gtgttacaag accaatgcaa aggacccgct caagtgtgct gaagcagtca 590

<210> 7201

<211> 557

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-K6-E12

<400> 7201

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aattccttaa ccgacacctg tcgtccaagt tgttccagga caaggagagt ttgtaccctt 120
tgctgaactt cctcaggggg gggggggcaa ggcacgacga tgatgttgaa tgacagaatc 180
caaagccttc gtgggtctcca atcatccctg agaaaggcag aggagtatct actgagtgtt 240
cctcaagaca ctccctactc ggagttcaac cataggttcc aagagcttgg cttggagaag 300
ggttgggggtg aactgcgaa gcgtgtactc gacacactcc acttgcttct cgaccttctg 360
gaggccccctg atcctgccaa cttggagaag ttccttgga ctataccaat gatgttcaac 420
gttggttatcc tgtctcctca tggctacttc gccagtgcca atgtgcttgg ataccctgac 480
actggcggtc aggttgtgta cattctggat caggtccgtg ctttggagaa tgagatgctt 540
ctgaggatta agcagca 557

<210> 7202

<211> 569
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-071-Q1-K6-E2
 <400> 7202

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 acccgccaggc cgcagtagcg ccgctacggg ttgctcagga ttcgaacccc accttctgat 120
 tgctccgaat ccgaggcggc ggttgccgag aagtttgccg catggcgggg taccggagg 180
 acaaccagca cgcgttgaac ggttacgacg atgaggaggc cgacgaggag gggcaccgcc 240
 ggcggcgggg aggtcgggat ggggcgtctg ggtacggcga tgctggcgga gaggatgtga 300
 gggggcgggg cggcgactca tcggggaaga tttttgtcgg aggcgttgct tgggagacaa 360
 ctgaagaatc attctccaag cattttgaga agtatggggc aataactgat tctgtaatta 420
 tgaagaacaa gccctaaaca ggggcattgg agcatagttg ggttgaacac gtcaccactg 480
 gaacaactgt gtaattgcag ctgctgagcc tttgcttgct gtacaagcta cacatgaaac 540
 ctgtgttgta ttctttagtt cgggatgca 569

<210> 7203
 <211> 165
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-071-Q1-K6-E3
 <400> 7203

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 agtggattaa gtaactgttg tcgctgttgt ggttacgcag cagagttcga cacagtcagt 120
 tgggtgaatg gaagtagttg ttgcaagtat gcttgtgggt ttgtc 165

<210> 7204
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-071-Q1-K6-E4
 <400> 7204

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 ggatgcgtgc aaaccccaat tgatcaaccc tacaggatcc aacaggcaat cacaacaggg 180
 atctcaccat tatcaccctt ggtcctccaa caaccgtgca gcccaatgac agcagttacc 240
 tttgctccat ttggtggcac aaaacatcag ggcacaacaa ctacaacaac ttgggctagc 300
 aaaccttgct gaatactctg agcaacatca gtccattcca ttcaaccaa tggtcatgctt 360
 ggaac 365

<210> 7205

<211> 573

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-E5

<400> 7205

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 gagggagcagt ccaaccccca gcaccagcaa gcggaggaga gggagggttat ggtggagcag 180
 cagcagccga ggaggggccc gaagctgagg tacctggact tcgtccaggt ggcggtgcc 240
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 cgccccagcg ttgacgccgt cgagtctgcc gtcaagggcg tcgttagccc cgtctacgac 360
 cgcttcggcg gcctgccgt cgacgtcctc gccttcgtcg accgcaaggt ggacgacacg 420
 gtgcacgagg tggacaagca cctcccgggc gcgtgaagg cggcgtcggc gcatgtctac 480
 gcggtggttc ggggcgtgcc ggaggtggcg cgcgagctgg cggccgaggg gcagcggtcg 540
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<210> 7206

<211> 601

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-E6

<400> 7206

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cgagtccggg gagctgctcg ggatcgaccc cgtcgagctc cggttcccat tcgaattaaa 180
taagcagatc tctgacgc tgcagctgac gaacaagaca gacaagcagg tcgcgttcaa 240
ggtgaagacg acaagcccgaa aaaataactgc gttcgcccaa acaacggcat ggtggcgccc 300
cgggtccaagg ctgacgttgt tgttacgatg caagcgcagc gggacgtgcc accggacatg 360
caatgcaagg acaagttcct tgtgcagagc gccactgtcg ccaaggaggt cgtgccaaaag 420
gaggtcactg gagacatgtt taccaaagat tcaggcaatg tagtggaaga agtgaagttg 480
aaggtagttt atgtagcacc atcgctcctc caaagcgaaa gatttgagga tggtaatctc 540
ggcagtttga gttatcaaga ggaaacaaag gaacctaaag aatcagaaaa aataatcact 600
g 601

<210> 7207

<211> 619

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-E7

<400> 7207

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aagtccagga cgtgatctca atgtagtttc acccagnana gtttctgagg ctgaagaaaa 120
tttgtggacg taaccaagcc agaattcagc acagatgaag aacaaagtcc aaaggctgat 180
gcagaagaga agatttatga cgagaagata aaggacatag agggaaactaa gaatttaact 240
gatgaagcag caataaaaac tgaagcacca ggagcagccc agaagacacg taaaaaatat 300
agcctattgt ctggcggtggg atcgaaggta aaacaccaac tcgcaaaagt gaagaaagcc 360
attgtaggca aacctgggca cacaaaacca gtatctccga cggcataaaa ctccagtcac 420
cttagaacat gtacattatt gtattgtttg tagtcttggt agccatttat ttcgggtggt 480
gtgtttgcga tgggctagga gaaggctctc ttcacaacca tagcattgga attctatgat 540

gttgacacatg aaacaccccc cccccctcg agaagtatgt tgaagatggt tgtaaataatg 600
tctagtgtgt aaattcaag 619

<210> 7208

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-K6-E8

<400> 7208

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gcggtcaatcg tcatagcagc agccaccgac cgcctcatcc tagcaagccg ccgacactgc 120
tctatcatgc tcgacggdgt ccagacacca gccgcctggc acctactgca tagccagaga 180
tgggctcatc ccgcgggagg gggggggggg 209

<210> 7209

<211> 596

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-E9

<400> 7209

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cgaagatggc gatgaccgtc gaagtgtttg ctgcaactgc gttcatgttt tccacgagta 120
ttctactgca gatactggca tgcgctttgt acaacaactg gtggcccatg ttagcagctc 180
tcatgtacgt ccttgtacca atgccatgcc tgttttttgg tgggtggatcc acacacttct 240
tgaccagcag agaaggtgga ggggtggatta atgctgcaaa attcttgact ggtgcgtcgg 300
ccatgggaag ccttgcattt ccagcaattc tgaggcacgc tggcttaatc gagaccgggg 360
ccatgttcat cgagttcacg tccttcttca tccttgtatg cacagtgtctg tgcttccata 420
gggcgactct ggatgaagac tggtaaagtc gcatttcacc gtcaccctga accctagcgg 480
ttcttggtctg ctctctgtcca tgctaagaaa aattcctggt ggaagctaac atggatctgt 540
acaaagaagc gtatttcgag cgtagccgta gctgatgtct tatgtagaca cttgtg 596

<210> 7210
 <211> 575
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-071-Q1-K6-F1

<400> 7210

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caagnaatta tccctccttg cgcttcttgc gctttttgcy agcgcaaca atgctgccat  120
tattccacaa tgctcacttg ctccctagttc cattattcca cagttcctcc caccagttac  180
ttcaatggcc ttcgaacacc cagctgtgca agcctatagg ctacaacaag cgattgcggc  240
gagcgctctta caacaacaa ttgcccaatt gcaacaacaa tccttggcac atctaacaat  300
acaaaccatc gcaacgcaac agcaacaaca gtccctacca gcaatgagcc acctagccat  360
ggatgaaccct gtcgcctact tgcaacagca gctgcttgca tccaaccac ttgctctagc  420
aaacgtagtt gcaaaccagc aacaacaaca actgcaacag tttctgccag cgcttagtca  480
actagccatg gtgaaccctg ccgcctacct acaacagcaa caactgcttt catctagccc  540
gctcgtctgt gccaatgcac ctacatacct gcaac                               575

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<210> 7211
 <211> 571
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-071-Q1-K6-F10

<400> 7211

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agtgccatta ttccacagtt cctccctcca gttacttcaa tgggcttggg gcgggccgagc  180
tgtgcaagcc tataggctac aacaagcgtt tgcgggcagc gtcttagaac aaccaattgc  240
ccaattacaa caacaatcct tggcacatct aaccatacaa accatcgcaa cgcagcagca  300
acaagcactg agccacctag ccgtggtgaa ccctatcgcc tacttgcaac aacagctgct  360
tgcatccaac ccacttgctt tggcaaacgt agctgcatac caacaacaac aacagttgca  420

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acagtttcta ccagcgctca gtcaactagc catggtgaac cctatcgctt acctacaaca 480
gcaacaactt ctttcatcta gcccgcctgc tatgggcaat gcacctacat acctgcaaca 540
acagttgttg caacaacagt tgctgcaaca a 571

<210> 7212

<211> 584

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-F11

<400> 7212

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caanaagacc ggccggcgag gctctagctc cagaccgaca atgccgtacg cagccacaag 120
gacgtcgccg cagcagcaca gccgcgtggc cagcaacggg agggccgtgg cggcgtgcgc 180
gggccacgcg ggcgtgcccg acgaggtggc gcggcaccac gagcacgcgg tggccgcggg 240
gcagtgtctg tctgtgatgg tgcagtccat cgcggcgccg gcggacgcgg tgtggctcgt 300
ggtgcgcgcg ttcgaccagc cgcaggggta caagcgcttc atcaggagct gccacctggg 360
ggacggcgac ggcgtcgagg tgggggtccg gcgggagctc ctgggtcgtgt cggggctgcc 420
cgccgagAAC agccgcgagc ggcttgagat ccgggacgac gagcggcggg tgatcagctt 480
ccggatcctg ggccggcgacc accgcctcgc caactaccgc tccgtgacca ccgtgcacga 540
ggcggcctca gagggcgggc cgctcaccat ggtcgtcgag tcct 584

<210> 7213

<211> 200

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-F12

<400> 7213

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acagaccgag cggcctccta ccaacaacac atcattggtg gtgccctctt ttagattgct 120
tattagtgtt aattcaataa taaagttttt tggatgatgt atgtggccaa ccagaagggt 180

tgatgggatg tccagatttt

200

<210> 7214

<211> 577

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-F2

<400> 7214

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tttccctcct tatgctcctt gctctttctg catgtgttgc taacgcgaca attttccctc 120
aatgctcaca agctcctata gcttcccttc ttcccccata ctttccatca atgatagctt 180
cagtatgtga aaaaccagc tcttcaaccc tataggctcc aacaagcaat cgcagcaagc 240
aacatacctt tatcaccctt gtttcaacaa tcgccagccc tatctttggt gcagtcattg 300
gtacaaacca tcaaggcaca gcagctgcag caactcgtgc tacctgtgat caaccaagta 360
gctctggcaa acctttctcc ctactatcag caacaacaat ttcttccatt caaccaacta 420
tctacactga accctgctgc ttatttgag caacaactat taccattcag ccagctagct 480
actgcctact ctcatcaaca acaacttctt ccatttaacc aattggccgc actgaacctc 540
gctgcttatt tgcagcagca aatattacta ccattta 577

<210> 7215

<211> 578

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-F4

<400> 7215

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caatgctcac aagctcctat agcttccctt cttcccccat acctctcacc agcgggtgtct 180
tcaatgtgtg aaaccccaat tgttcaaccc tacaggatcc aacaggcaat cgcaacaggc 240
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ttggtccatt tgggtggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca 360
aaccttgctg catactctca gcaacatcag tttcttccat tcaaccaact ggctgcattg 420
aactctgctg cttatattgca acaacaatta ccattcagcc agctagtgtg tgctacccc 480
cagcaatttc ttccattcaa ccaactagca gcattgaact ctgctgctta tttacagcag 540
caacaactac taccattcag ccagctagct gatgtgag 578

<210> 7216

<211> 552

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-F5

<400> 7216

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tgctttcttc agctccttgg tctttctgga agtggtgcta ccgcaaccat tataccacga 120
atgacaacaa gactcctata gcttaccttc ttccacaaaa cctatcacca gcggagtggg 180
gggggggaaa aaaccccaat tgaacaaccc tacatgaacc aacaagcaat agcaacaggc 240
atattaccat tatcactctt ggtcctacaa caaccggcaa acatacaaca gcaaccacct 300
gtgcaccatt tggcgcaaca aaacatggcg gcacaacaac tacaacaact tgtactaaca 360
aaccttgctg aatactctca acaacatcag tttctatcat accaccaact ggctgaaaag 420
aactctgctg attattaaca acaacaatta ccattcaacc aggtagtgtg tgactacccc 480
cagtaatttc tatcaaaca acaactagca gngaaacaac tctgctgatt aacaacagca 540
acaacaacta ct 552

<210> 7217

<211> 588

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-F7

<400> 7217

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ctcgcccgcc gccgtcgccg ccattgggga gggggaaagt tcanagggga agcccacagg 120
 ccgccgcaac ttctccacac ccgaggagat cgctgctggt acttcagggtc ggccacgcga 180
 cctggggaga agaaggagga agaggaagat gaggaagagg tagaaagaga agagtctgag 240
 gaagaatctg aagaggattc tgatgaaaag actaaacata aaggcactga ggggtattatt 300
 cagattgaaa atccaaactt ggtgaaagcc aagaatataa aggccaagga agttgatttt 360
 ggcaagacaa ctgaactctc aaggcgtgaa agagaggagc ttgagaaaca aaaagctcat 420
 gaacgttata tgaagcttca ggagcaagga aaaacagaac aagcacgaaa agattggaac 480
 gtcttgcttt aataagacaa caaagggctg atgcgggcga gaaacgcgaa gaggagaaaag 540
 ctgccaagga gcagaggaag tccgaagcac ggaagtaact gcaacagt 588

<210> 7218
 <211> 583
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-071-Q1-K6-F8
 <400> 7218

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 tccacaatgc tcacttgctc cgagtgccat tattccacag ttctccctc cagttacttg 180
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 cgtcttagaa caaccaattg cccaattaca acaacaatcc ttggcacatc taaccataca 300
 aaccatcgca acgcagcagc aacaagcact gagccaccta gccgtggtga accttatcgc 360
 ctacttgcaa caacagctgc ttgcatcaa ccaacttgct ttggcaaacg tagctgcata 420
 ccaacaacaa caacagttgc aacagtttct accagcgtc agtcaactag ccatggtgaa 480
 ccctatcgcc tacctacaac agcaacaact tctttcatct agcccgtcgc ctatgggcaa 540
 tgcacctaca tacctgcaac aacagttggt gcaacaacag ttg 583

<210> 7219
 <211> 573
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-071-Q1-K6-G1

<400> 7219

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cgccgccgcc atcgtcggcc acgacggcag cgtctgggca cagtccgaga acttccccga 180
gttaaagcct gaggagggtt ctgggatgat aaaggacttt gatgaacctg gaactcttgc 240
accaactggt ctttttgttg gaggtacgaa gtacatggtg atccaagggtg aacctggagt 300
tgtcatccga ggaaagaagg gcactggagg cattactatc aagaaaactg gcatgtcctt 360
gattatcggt atctatgatg agccaatgac tccaggggcaa tgcaatatgg tgggtggagag 420
gctcggcgat tacctgatcg aacagggtt ctaagtttgt cataatgcta ttttggtcat 480
tgggcactta agtttgcacc tcatttggtt ctgtaatatg tgggcttggt catgtgcttg 540
gcgtattgca tgcagtgaat aatttatctt cgc 573

<210> 7220
<211> 591
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-071-Q1-K6-G10

<400> 7220

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caacaacaac cgcagcacco accaccaaca acaacaacaa cagcaccaac aacaacatca 120
atgtgaaggc caacaacaac atcaccaaca atcacaaggc catgtgcaac aacacgaaca 180
gagcgggggg cagcaccaag gacagagcca tgagcaacaa catcaacaac aattccaggg 240
tcatgacaag cagcaacaac cacaacagcc tcagcaatnn atcagcaggg cccaggaaaa 300
atcacaacag caacaatgtc attgccagga gcagcaacag actacaagggt gcagctataa 360
ctactatagc agtagctcaa atctaaaaaa ttgtcatgaa ttcctaaggc agcagtgcag 420
cccttttgta atgccttttc tccaatcagc tttgatacaa ccaagtagct gccaggtatt 480
gcagcaacaa tgttgtcatg atcttaggca gattgagcca caatacattc accaagcaat 540

ctacaacatg gttcaatcca taatccagga ggagcaacaa caacaacat g 591

<210> 7221

<211> 567

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-K6-G11

<400> 7221

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agtcctgtgct cttcgtgagg ctttctaccg ccagaacctt ccaaagtga ccgagggggg 180
ggccactgtc ttggtattcc tcatagttat ctatttccaa ggcttccgtg ttgtgcttcc 240
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ttcaaacatg cccatcattc ttcactctgc gctgattacc aacctctatt ttatatccca 360
gcttctctac aggaagtaca gtggaaactt ccttggttaac cttcttgga agtggaagga 420
gtctgaatac tctggccatt ctattcctgt tgggtggtctt gcttactatg taactgcccc 480
atcaagtttg gctgatgtcc ttgcaaacc attccatgca ctgttttatg tggctctcat 540
gctgtcagcc tgtgctctgt tctcaaa 567

<210> 7222

<211> 568

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-G2

<400> 7222

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cgtcgtcttc gactccggcg cgcgcaccgc gctcgccttc gtcacctgc gcgccgacgg 120
ggagcgcgag ttcatgttct accgcaacc cagcgtgac atgctctca ccgccgacga 180
gctcaacgct gagctcatca agagggctgc ggtcttccac tacggatcaa taagcttgat 240
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actgctctct tatgacccaa acctgagggg ggcactatgg ccatcccgtg aggaggcccg 360
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 cgagttcttg acaggcatcg actcgggtgga ggacgatgtt gtcatgaagc tgtggcggcc 480
 taccatgaag ctgctcctag tgactcttgg agatcaaggg tgcaagtact atgccagggg 540
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<210> 7223

<211> 563

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-G4

<400> 7223

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 ctcttatagc ttcctttctt ccccatacc tctcaccagc ggtgtcttca gtatgntgaa 180
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 tactctcagc aacagcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420
 tatttgcaac aacaactacc attcagtcag ctagctgctg cctaccccca gcaatttctt 480
 ccattcaacc aactggcagc attgaactct gctgcttatt tacaacagca acagctacca 540
 ccattcagcc agctagctga tgt 563

<210> 7224

<211> 570

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-G5

<400> 7224

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 gtagtgtgaa aacccaattc ttcaacccta caggatccaa caggcaatcg cagcaggcat 240
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 ggtgcatttg ttggcacaaa acatcaaggc acaacaacta caacaacttg tgctaggaaa 360
 ccttgctgcc tactctcagc aacagcagtt tcttccattc aaccaactgg ctgcattgaa 420
 ctctgctgct tatttgcaac aacaactacc attcagtcag ctagctgctg cctaccccca 480
 gcaatttctt ccattcaacc aactggcagc attgaactct gctgcttatt tacaacagca 540
 acagctacca ccattcagcc agctagctga 570

<210> 7225
 <211> 569
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-071-Q1-K6-G8

 <400> 7225

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 ttgcctcctt atgctccttg gtatttctgc aagtgtgct acggcgacca ttttcccgca 120
 atgctcacia gctcctatag ctctccttct tccccgtac ctctcaccag cgggtgtcttg 180
 ggtatgtgaa aacccaattc ttcaacccta caggatccaa caggcaatcg cagctggcat 240
 cttaccttta tcacccttgt tcttccaaca atcatcagcc ctattacagc agttaccttt 300
 ggtgcattta ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa 360
 ccttgctgcc tactctcagc aacagcagtt tcttccattc aaccaactag ctgcattgaa 420
 ctctgcttct tatttgcaac aacaacaact accattcagc cagctacctg ttgcctacct 480
 ccaacaattt ctccattca accaactggc agcattgaac tctcctgctt atttacagca 540
 gcaacaacta ctaccattca gccagctag 569

<210> 7226
 <211> 594
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-071-Q1-K6-G9

<400> 7226

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aaagattcaa tcaacaattc agcttcaaaa gccaaactcaa gtgttcccag tgacaaaaag 120
tcagaaatga agataatgtg agcctgggag atcagtcaga tggggccgctc atgccatctc 180
ccacaaagaa gctgcaaata tgcaaaggcc cttcagatgc accttcaatt aggaaatcaa 240
ctatcagaat cctgggtgtt aagggagctg ctctaccacc cacagggaaa tctcaagttg 300
aaactcggaa atgctttgct aatgctacag cagaagtgat ttctgctagt acaaacgaga 360
tcagt'gagcc agataatgca gctgcc'ccat' tgcttg'caca gcagttgcca ccagacactg' 420
caaagaactc cactgtcatc atgcataccc atgaacaag taaagtcaat cagttggctg 480
ctacatggcc aagggcgaac tttcaaactg attacaacaa gaagccttcc aatgtaccca 540
taatggctaa ccagcccagt gggttcgctg gtgcgactgc tcccttggtg acac 594

<210> 7227
<211> 577
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-071-Q1-K6-H1

<400> 7227

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gtngagggttc tggacccccgc gagegtcgtc gcctctgctc cttgggtgctt cgtcctcctc 120
ccacgtgtgt gcgcccgaag gacc'caatct gaggggtcat cggctaccag cgctaggatc 180
atgtgtgacc aatcgtgtgt tgcgatttgc gaaccgcggg atcaaggcgt gggagcaaag 240
ctttagctgc caaaggggag gaagcggaag agggcagcac attctatagt ctctatccat 300
tttttggcac cataaacttt gttatgaaag tggctggagc caatcgtatc aaaaaattat 360
ccaaagcaat ctaaagccac ctctcgagtg cagggatgtc aagggattta gacgcctttc 420
attagttgta gcctctgctg cccagtctgc tgccagtgtt gtccaagtcg gcacaaaaga 480
aatccaatca aaggcttgtt tgggagcaat gatagaggag gagattgaag ggtctgtctc 540

cagtgcgcac tgagcagcac cacggcgcggtg

577

<210> 7228

<211> 566

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-H10

<400> 7228

tgtccccgn ccactccgcc gcccggggga ggggggagcc ggccagctcc tcatgcttcc 60
accacgcgc gaccgcagc ccgccgtctt ctctcagcgt cggcaccaag gtcttcgtcg 120
ggctcagggc gcagaccaag ctccggttcgt cggagtcgtc atgccnnat gtcggggcgg 180
gggggcacac tgcggtcaac cggagaatct ctctcagggt gtccaaaaag aaggcgacca 240
gagcccgcat ctcgatgatg cctattggta ctccacgtgt gccttaccga acacctggtg 300
aaggaacctg gcaatggctt gacatatgga acgctctgta ccgtgagcgg attatcttca 360
ttggggacaa tatagatgaa gaattcagca accaagtgtt ggcaagcatg ctctatcttg 420
acagcattga taattccaaa aagataatgc tatacatata tggaccagga ggagatctta 480
ctccgtgtat ggcactatat gataccatgc taagtctaaa aagtcctatt ggcactcact 540
gcttgggctt tgcattcaac ctggca 566

<210> 7229

<211> 578

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-H12

<400> 7229

gncacatagn aagcacaata gtgtaccagc aggggcagcc aaaaattttg ctcccttatg 60
ctccttggtc tttctgcaag tgctgtacc gcaaccattt tcccacaatg ctcaaacgt 120
cctatagctt cttttcttcc ccatacctc tcaccagcgg tgtcttcagt atgtgaaaac 180
gggggtcttc aaccctacag gatccaacag gcaatcgag caggcatctt acctttatca 240
cccttggtcc tccaacaacc gtcagcccta ttacagcagt tacctttggt gcatttggtg 300

gcacaaaaca tcaaggcaca acaactacaa caacttgtgc taggaaacct tgctgectac 360
 tctcagcaac agcagtttct tccattcaac caactggctg cattgaactc tgctgcttat 420
 ttgcaacaac aactaccatt cagtcagcta gctgctgcct acccccagca atttcttcca 480
 ttcaaccaac tggcagcatt gaactctgct gcttattttac aacagcaaca gctaccacca 540
 ttcagccagc tagctgatgt gagccctggt gcctttctt 578

<210> 7230
 <211> 594
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-071-Q1-K6-H3

<400> 7230

naaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggggggggaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa agggcgcccg ttggcgggg ctccttgatt ggctcccgct 120
 ttcactgccc ccgtcgcttg ctatTTTTat aggtttcctt taattgcaac tccatgtgcc 180
 agtcgtttgc accgcgtggt gtgactgggt aaaaccctgg ggaaaccctt gctttttccc 240
 ctttttaaAT ccatctgcct tttcataccc cttttgctcc tgctcgaaga ggccccaacg 300
 gggcccccct ctcttaccac ttgtcccaac ttttaatgga gaattggaaa ggcgccttg 360
 ttaccgggcc tctttaaccg cgcttgatg tcgggggtta ctgcgcagggt taccgctac 420
 atttcccatc cccttgccgc ccccttattg cctttcttt cctttttttt tctcccttt 480
 ctcgggcttt ccccgggatt ttctaattag ggtgttactt tgggggtccc ttttgggtgc 540
 ttttcggggc ttttaccoca aatacttctt taagattttg tttggggtat gggg 594

<210> 7231
 <211> 584
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-071-Q1-K6-H4

<400> 7231

ctgccacctc cggttcacct gccacctccg gtgcactccc cagcggcggg ccacctgccg 60

ccgccggtcc acctgccacc gccggtccat gtgccgccgc cggttcatct gccgccgcca 120
 ccattgccact acctactca accgccccgg cctcagcctc atccccagcc acacccatgc 180
 ccgtgccaac agccgcatcc aagcccggtgc cagctgcagg gaacctgcgg cgttggcagc 240
 accccgatcc tggggccagtg cgtcgagttt ctgaggcatc agtgcagccc gacggcgacg 300
 ccctactgct cgcttcagtg ccagtcgttg cggcagcagt gttgccagca gctcaggcag 360
 gtggagccgc agcaccgta ccaggcgatc ttcggcttgg tctccagtc catcctgcag 420
 cagcagccgc aaagcggcca ggtcgccggg ctggtggcgg cgcagatagc gcagcaactg 480
 acggcgatgt gcggcctgca gcagccgact ccattgccct acgctgctgc cggcggtgtc 540
 cccactgaa gaaactatgt gctgtagtat agccgctggc tagc 584

<210> 7232
 <211> 581
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-071-Q1-K6-H5

 <400> 7232

gcaagcaaca tagnaagtag naaccattag caacaataga gcaacaatgg cgaccaagna 60
 attttccctc cttatgctcc ttgctctttc tacatgtgtt gctaacgcga caattttccc 120
 tcaatgctca caagctccta tagcttccct tcttccccca taccttccat caattatagc 180
 ttcgagtatg tgaaaaccca gctcttcaac catataggct tcaacaagca atcgcagcaa 240
 gcaacatacc tttatcgccc ttgttgtttc aacaatcacc agccctatct ttggtgcagt 300
 cattggtaca aaccatcagg gcacaacagc tgcagcaact cgtgctacct gtgatcaacc 360
 aagtagctct ggcaaaccct tctccctact ctcagcaaca acaatttctt ccattcaacc 420
 aactgtctac actgaacct gctgcttatt tgcagcaaca actattacca tttagccagc 480
 tagctactgc ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga 540
 accccgctgc ttatttgcag cagcaaatac tactgccatt t 581

<210> 7233
 <211> 552
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-071-Q1-K6-H6

<400> 7233

cccagcgtcc ggtggnaaac agtagcggaa atggggcaac atggcggcca anatttttcc 60
atccttatgc tccttgcctt ttctgcatgt gttgctaacg cgaccatttt tcctcaatac 120
tcacaagctc ctatagctgc ccttcttccc ccataccttc catcaatgac cgcttttagtg 180
tgtggaaaac ccagcccttc aaccctacag gatccagcaa gcaatcgcaa caagcaactt 240
accttttatca cacctgttct ttcaacaatc gccagcccta tctttggtgc agtcattggt 300
acaaaccatc agggcagaac agttgcagca actcgtgcta ccagtgatca gccaagtagc 360
tctggcaaac ctttccccct actctcagca acaacaattt cttccattca accaactgtc 420
tatactgaac cctgctgctt atttgcagga acaacaacta ctaccattca gccagctagc 480
tactgcctac tctcagcagc aacaatttct tgccatttaa ccaattgggc cgcactgaac 540
ccctctgctt at 552

<210> 7234
<211> 572
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-071-Q1-K6-H7

<400> 7234

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ttaaccaggg cttctgtcta ctgtacccca atcggggatt tgccagtaga ccaggaagtc 120
attgaggaac tcagtgetna ctggaagttt gaatttatgg accttaatgt ggatgagagc 180
tgaacatagc atgngaaatg catttgcctt accttgctaa agtatttcaa ggacataatg 240
tgaaagtcgt ccctatcctt gttggtgcac ttagctccca aaacgaagcc ttgtatgggc 300
agctgctctc caaatatgtg gatgacccaa aaaacttctt ttccgtgtcg tcagacttct 360
gccattgggg atccaggttt agctacacat actacgaaaa gaagcacggt gccatccata 420
aatctatcga ggccttggac cgtatgggca tggagatcat agagactggc gatcccgtag 480
cgttcaaaga atacctgcag gagtacgaga acaccatatg cggacgccac cccatcagcg 540

tcttccttca caatgttgaa acattgctcg ac

572

<210> 7235

<211> 595

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-K6-H8

<400> 7235

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tccggttcac ctgccacctc cggtgcatct cccaccgccg gtccacctgc cgccgccggt 120
ccacctgcca ccgccggtcc atgtgccgcc gccggttcat ctgccgccgc caccatgcca 180
ctaccctact gagggggggg ggcctcagcc tcatccccag ccacacccat gccctgcca 240
acagccgcac ccaagcccggt gccagctgca gggaacctgc ggcgttggca gcaccccgat 300
cctgggccag tgcgtcgagt tcctgaggca tcagtgcagc ccgacggcga cgcctactg 360
ctcgcctcag tgccagtcgt tgccgcagca gtgttgccag cagctcaggc aggtggagcc 420
gcagcaccgg taccaggcga tcttcggctt ggtcctccag tccatcctgc agcagcagcc 480
gcaaagcggc caggctcgcg ggctgttggc ggcgagata gcgcagcaac tgacggcgat 540
gtgcggcctg cagcagccga ctccatgcc ctacgtgct gccggcggtg tcccc 595

<210> 7236

<211> 581

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-K6-H9

<400> 7236

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ccttctctccg tttngacag acgagagggg atgtagtggg gcaccacgag ttggtgaagc 120
tgccagcatg atctggttat gatggtgggt gtatatgtaa gatggatgta atctatacta 180
ctaccgggcc gtggcactct ctctctctcc cccgtccctg actgtcatat atggatcgac 240
gaatccaaga tgagagggga agggagagag agagagggta attaatagag accaggacca 300

ggtcattgctg tagtttcatc tgctgggtggc cgcacatcga aaaccctagc tagctcaccc 360
tcctgcaatt catatccatg ctgcactcgc cagagaccac cagtcaagct agcttatttc 420
cgccgttgac gacgttgatt aattatccgt gataataatg gccttgtcga tctagtttcc 480
tctctctttt tttattatta tgcctttgct tctctcttgg ttcggttgtg tatattgctg 540
tctctgtctt cgtcatcact gtgtgcctac aatcctgctc a 581

<210> 7237

<211> 548

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-A1

<400> 7237

caagttaata tcattattag tgccggcttt tagcattttt ttaactccag aagaacagcc 60
tcacgacaac tggtgaaaag ggaaaatcag tacatgatgg ccacaaacat gcaagagctg 120
gaagtagatt ccgagtagag gtccaacgtc caaggctctc gctatctcga gtccacaacg 180
gtgccttctg gaagcgcgga caggtgcaca agaggggcat gtgatttcag ggaagcattg 240
gcaccagtga tcttggtctc ctttgttctg ttgagcacct tcctcacctc gtttgcaagc 300
tctatgatcg aatcatcttc gtggctaata ctggctaata ccttctccat tgagaacagg 360
taatccctat tatagccagt agggccattg gctgtagcaa tttgccttgc catatcctgc 420
aaaggagcag ggccaagata gtacttggtg ccaattggat cttggagtgg aaacgaacac 480
taagacgcct gtcacagctg gtttcaaggg atctccttcc ttgtagaaat aatggatatc 540
ttctggtc 548

<210> 7238

<211> 487

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-A10

<400> 7238

gaagcaaaat ttcatgtgct tattattata agttccgaac gcaccataat cagagtcctt 60
atgaatccac cagtacaaaa ctgccccacg aagagtaaaa aacatattta ttcgggggag 120

agactacagt aggtcaacca gtaaatacca ctggctgagt acttagaaca ttgttggggg 180
 tgattcaggt tttattcacg aaagctggga tactatcctc atttcagttg agtaactgca 240
 gogtgtttgg catttgcaag atgggggcaca gtctcatgc tcaaaccggc catgctgac 300
 ctcccatcaa atgtcatata aatgggggtat tctgcctca tgaatgcgac ttgttcgcta 360
 ttcagcccag tgaaagtaaa catcccaatt tgcttaatga tatgggtcca atcaccaggg 420
 gtgtcctctg ggatttcagc gccattaaat agttgtggcg ctcagggtaa tgatcctatc 480
 agccatg 487

<210> 7239

<211> 551

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-A11

<400> 7239

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 cttgtaccat gacagataca tacataggtg tacagacgca aaaaaagtca cccgttgagc 120
 cagccgattg gagaccaaac accgggggga tgcgtttaca caatatacgc aaagaataaa 180
 ggaatgcgcc cccacgggga aactagcagc agcgtggctt gtccaggaga ctactctgaa 240
 tcatagaagt cgctagggca cgggtgaatt acatccgact ccagcatctg taccaccctg 300
 tgcattgtcg gcctctcctc tggcgaggag ctaacacatt gcttggcaag agagagcagg 360
 gcatctaagg tctcagtctg cactccttca cagttcaggt cgacaatttc cctctcccgg 420
 ttctcactag caagaaaatt taaccatcca acaatgttta gtcccttctc aatgaaggat 480
 gcatcagtag gccgctttcc actgagtatt tcgagtacca aaacccccaaa actgtagaca 540
 tcagtcttct c 551

<210> 7240

<211> 112

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-A12

<400> 7240

gggcttggca gtctgcatac cactggctat ggaagcatta cattaccact cgttatttgt 60
 ttctggcgcg tcgtacatgt aatcttgccct ttgcatacac agatcacata cg 112

<210> 7241

<211> 517

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-A2

<400> 7241

ccgccgactc gattttactg atgacaaaaa atgaacaagg tggtaaagt aaagcatccc 60
 cgagatgaag caacaacgta aacagccata attattctca ataaccggg agcaatgcag 120
 gggaattaac gactcttaca acatcagggtg ttgtaaacca cacaatactt cataacagac 180
 acacataaca cgatagcagg agcaactcac ggcagatcac gggataaggg cagcactg 240
 gctgatgct gcgtcatcag caaacttctc tagtactcgt caccctcgtc gccatcctcg 300
 cctcatoga actcagcgcc gacctcctcg tagtccttct cgagcgccgc caggctctca 360
 cgggcctcaa agaactcacc ttctccata cctcaccga cgtaccagt caggaaggca 420
 cgcttggcgt acatgagggtc gaacttgtgg tcgatgcggg agaacacctc cagcactg 480
 gtggagttgg agatcatgca cacggcacgc tgcacct 517

<210> 7242

<211> 527

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-A3

<400> 7242

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 aactataact cataagcaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaac 120
 actgttgagt ttgtcaaagc aagttgggtg aatggcagca attgttgag ttgtaagagg 180
 gtgccagcgt taggcatagc gtgcaggtag aacggcaaca actgttggtg tgtcaagaag 240
 gcagcagggc tcacatcagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
 gcagcagagt tcaatgctgc tagttgggtg aatggaaaaa attgctgggg gtaggcagca 360

actagctggc tgaatggtaa ttgttggtgc aaataagcag cagagttcaa tgcagccagt 420
 tggttgaatg gaagaaactg atgttgctga gagtatgcag caaggtttgc tagcacaagt 480
 tgttgtagtt gttgtgccct gatgttttgt gccaccaaat ggaccaa 527

<210> 7243

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-A4

<400> 7243

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 actttcttat ttctgggaag ccacaaacat cagacaaaaa actttattat tgaactatta 120
 ctcataagaa atttaaaagg agggcccccac caatgatggg ttgttggtaa aaccccgtg 180
 ggtttgtcaa aacaagttgg ttgaatggca acaattgttg cagttgtaaa agggggccag 240
 cgttaggcgc agcgtgctgg taaaacggca acaactgggg ttgtataaaa aaggagcag 300
 ggctcacacc aactagctgg ctgaatggga gaagtgttg ctgctgtaaa aaaacaggaa 360
 aattcaatgc tgccaattgg ttgaaaggaa aaaatgctgg gggtaggc 408

<210> 7244

<211> 487

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-N6-A5

<400> 7244

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 accattatcg agtacatctc atatgtaatc taaaaaaggc acctccaacg atgggttgct 120
 gccacaacaa ggcaggggtc atcaaaaaaa actggttgta tggcaacaat tgttgctgct 180
 gtaggaaggc aacgaccaat gggttagcca ccgctagtgg attaagtaac tgttgctgct 240
 gttgtaggta cccaccaaag ttcgacacaa tcagttgggt gaatggaagc agctgttgca 300
 agtaggcagc agggtttgcc acagctagct gagtcaaagc tggtaaatc tgttgcaaca 360
 actgttggtg caggtatgta ggtgcattaa ccacagcgag agggctagat gaaatcantt 420

gttgctgttg taggtaggcg gcagggttaa ccatggctag ttgactgagc gctggtaaaa 480
actgttg 487

<210> 7245
<211> 552
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-A6

<400> 7245

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caaacgctgt tcaagaacca aaagcaacaa aacatgatga taaaacgtct tgggaaggta 120
gctctatata cttgcagata aaaataaaac tagacatagc aaaaagctcc aagcagcaca 180
ttcagagaac ttatgccttg gcagcagcct gggcagcaaa gtcgcgcctc ctctgctcct 240
cgatgatgct gagcttgata cccttgccct tgggcaggct caccacgggc ttgttgccct 300
tgccaatggt gaacacgttg cccatgcggg tggcgaactg gtggcccatg gagtcctcga 360
cgtggatggt atcgaagccg cccttggtgt tctccctgtt cttgatcaca cctacacgcc 420
cgggtgttct cccgccgggc accatgacca cgttgccgac gtcaaacttg atgaagtcca 480
tgatcttggt ggtctccaga tcgatcttga tgggtgctgtt ggccttgatg agcggggtcgg 540
ggtagcggat gg 552

<210> 7246
<211> 549
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-A7

<400> 7246

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cattgtcgag tacatctcat atgtaatcta aaagaggcac ctccaacgat gggttgctgc 120
aaggcagggt tcatcaaaga gaactgggtt tatggcagca attgttggtg ctgctgcagg 180
aaggtagcga ccaatgggtt agccactgcc aatggattaa gtaactgttg tcgctgttgt 240
aggtagcgag cagagtttga cacagccagt tgggtgaatg gaagcaactg ttgtaagtag 300

gcagcagggt ttgccacagc tagctgagtc agagctggta caatttggtg cagcaactgt 360
 tggtgtaggt acgtaggtgc attgcccacc gcgagcgggc tagatgaaag tagttgtagg 420
 tagacggcag gggtcaccat ggctagttga ctgagcactg gcataaactg ttgcagctgt 480
 tggtgttgct ggtatgcagc tacgttcgcc agaacaagtg gggtggatgc aagcagctgc 540
 tggtgcaag 549

<210> 7247

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-A8

<400> 7247

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 tggagaaagg gagaaaaaaa ttgttggttt tagagggggg ggggggtagc cgccaaaaaa 120
 ttgttgaagg aggcaaccgc tgctgttaga aaaaaaaaag aagaccccc gcagctgggt 180
 cgttgaaagg gagaggtgtg tttgttgca aaaaaaaaa gaggggggag aacagccaat 240
 tgtttaaaaa agagaaga 258

<210> 7248

<211> 557

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-B1

<400> 7248

agaaagtact ttcttatttc tgggaagcca caaacatcag acaaaaaatt tattattgaa 60
 ctataactca taagaaacta aaaggggcac caccaatgat gggttgttgg tagaatgctg 120
 ctgggtttgt caaagcaagt tgggtgaatg gcagcaattg ttgcagttgt aagaggggtg 180
 cagcgttagg cgcagcgtgc tggtagaacg gcaacaactg tggttgtgtc aagaaggtag 240
 cagggctcac accagctagc tgggtgaatg gtagtagttg ttgctgctgt aaataagcag 300
 gagagttcaa tgctgtcagt tgggtgaatg gaagaaattg ctgggggtag gcagcagata 360
 gctggctgaa tggtagttgt tgttggtgca aataagaagc agagttcaat gcagctagtt 420

ggttgaatgg aagaaactgc tgttgctgag agtaggcagc aaggtttgct agcacaagtt 480
 gttgtagttg ttgtgccctg atgttttgtg ccaataaatg ccaccaaag taactgctgt 540
 aatagggctg aagattg 557

<210> 7249
 <211> 568
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-071-Q1-N6-B10
 <400> 7249

aatagtaata ccatggatct aaataaccca aacaataatg ttttagtgaa atagtgcagc 60
 tttacaagag caattgctca catttcgcac gttngaaaag gcacaagaca tgtcgctgaa 120
 gagtgcagac aacagtatga cggtagagag cagtgcgatt atcatcatca atatcatcgc 180
 cggtactttc cggtttacgc tgtccaagca aacatttccg caaacatttc cgtcaaggat 240
 atctggctcg tagctcccaa tcctcgccag gaagatctca gcgcgataat ctgaaagggg 300
 tcagccatga tgtcaatagc acttcccttt cctgatagc tgatgccact actccgttct 360
 cttcacaacc atccttgttt tcatcaggtg accataagtt cttgaccgct taagtactaa 420
 gaccatgcat ctccatataa gtacccctcc acatgtatct caaaatcttc atcaccccaa 480
 atgatcctag gaccttgaaa aatcggtaca tgagcaaata tccagttgct gctcaaaata 540
 tgtgacttgg ctttggaaca cagaatat 568

<210> 7250
 <211> 100
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-071-Q1-N6-B12
 <400> 7250

gtgttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
 tttttttttt tttntntttt gttttttttt taaaaggggg 100

<210> 7251
<211> 557
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-B2

<400> 7251

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cattattgaa ctataactca taagcaatct aaaagaggca ccaccaatga tgggttggtg 120
gtagaacact gttgggtttg tcaaagcaag ttggttgaat ggcagcaatt gttgcagttg 180
taagaggggtg ccagcgttag gcatagcgtg caggtagaac ggcaacaact gttgttggtg 240
caagaaggca gcagggctca catcagctag ctggctgaat ggtagtagtt gttgctgctg 300
taaataagca gcagagttca atgctgctag ttggttgaat ggaagaaatt gctgggggta 360
ggcagcaact agctggctga atggtaattg ttgttgcaaa taagcagcag agttcaatgc 420
agccagttgg ttgaatggaa gaaactgatg ttgctgagag tatgcagcaa ggtttgctag 480
cacaagttgt tgtagttgtt gtgccctgat gttttgtgcc accaaatgga ccaaaggtaa 540
ctgctgtaat agggctg 557

<210> 7252
<211> 95
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-071-Q1-N6-B3

<400> 7252

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt nntttttttt nntttttttt ttttt 95

<210> 7253
<211> 546
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-B4

<400> 7253

cgagaaaaat ctcaaccaat atattgatta tttctaggaa acacatgccg gtatgagggc 60
accattatcg agtacatctc atatgtaatc taaaagagggc acctccaacg atggggttgct 120
gcctcgacaa gacaggattc atcaaagaga accggttgta tggcagcaat tgttgctgct 180
gtaggaaggc agcgaccaat ggggttagcca ctgccaatgg attaagtaac tgttgctgct 240
gttgtaggta cgcaacagag ttcgacatag ttagttgggtt gaatggaagc agctggttgca 300
agtaggcaac aggggtttgcc acagctagct gagttagagc tgggtacaatc tgttgcaaca 360
attcttggtt caggtatgta ggtgcattgg ccacagcgag cgggctagat gaaagcagtt 420
gttgctggtt taggtaggcg gcagggttca ccatggctag ttgactaaag cgctggcaga 480
aactggttgca gttggtgttg ttgctggttt gcaactaccg ttggtagaac cagggtgggtt 540
ggatgc 546

<210> 7254
<211> 142
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-071-Q1-N6-B6
<400> 7254

caattcaaaa atatcttagc aggaacaaca gtacaaaatt aattcttgta caagttatag 60
tttatttata gataacaaaa gagcactatg tgatagacat caaaagcatt tcaagatttg 120
atagtaacaa tggctacttt tg 142

<210> 7255
<211> 246
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-071-Q1-N6-B7
<400> 7255

gggggaggtg gggagaagag gaaaaaaaaa agaaaaaaaaa ggggggtttta agagaaaaaa 60
aagagcgggtg agggggacca aatatgagag agattagagg ggagaaaaaa aaagggggcc 120
cccaaagagg ggggggggca aaaaaagggg ggggaggaga aaaaaaaga gggggagggg 180
aaaaaaagtt tgttggtggga gaaggaggaa aaaagagggg gggagccccg gggggggaaa 240

aagaaa

246

<210> 7256

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-B8

<400> 7256

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aactataact cataagcaat ctaaaagagg gcaccaccaa tgatggggtg ttggtagaac 120

actgttgagt ttgtcaaagc aag 143

<210> 7257

<211> 90

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-N6-B9

<400> 7257

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tttttttttt tnttnttttt tttttttttt 90

<210> 7258

<211> 493

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-N6-C1

<400> 7258

agtaatatat aggatgacag atatagttga tccaaagcag gtaatggaaa tacaaaggtt 60

cataaaaagg tttgctgcaa cttctagggc agcttataac agtacatact agcagcacia 120

atgggtcaagg aacagcatgc cagacaacgc atcttgccgc cgaacgctcg acttctgtc 180

aagcggctct taccatacca aggttacacg atccatcgat gcaataccat tgtaggttct 240

tgtttttagt acgcaaacgc agccgatcta tatgacagac ccatcggtga tgggtgcatt 300

cttcaagatc accacgattc cagaccttat gtagtaccct tcttcgggt gatcagcctc 360
 ttggatgcc ttactgtttg tgatcaccac gttcttccca atcctagcat tcatgtcaat 420
 gatacagntc cttatctttg tgttccttcc tattccaact gggaccttcc cagctaacag 480
 tagctttgaa gct 493

<210> 7259

<211> 555

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-C12

<400> 7259

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 actgctaggt ttgtcaaagc aagttgggtg aatggcagca attgttgagc ttgtaagagg 180
 gtgccagcgt taggcgcagc gtgctggtag aacggcaaca actgtgggtg tgtcaagaag 240
 gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
 gcaggagagt tcaatgctgc cagttgggtg aatggaagaa attgttgggg gtaggcaaca 360
 ggtagctggc tgaatggtag ttgttggtgt tgcaaataag aagcagagtt caatgcagct 420
 agttggttga atggaagaaa ctgctgttgc tgagagtagg cagcaagggt tgctagcaca 480
 agttgttga gttgttgctg cctgatgttt tgtgccaata aatgcaccaa aggtaactgc 540
 tgtaataggg ctgat 555

<210> 7260

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-C2

<400> 7260

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 atggccaaac cggcccccca gggggggggg ggaaaccacg taaccaaagg gcggaaaagg 120
 agaaaacaag cgggctgggg agctaggcag gggccccatt acattatacc cacaggccaa 180

agttcccca aaagaaaaca ccccggaag ttggtttaaa agggaaggga ccgggttggt 240
gaaattgaag gcccaaaaac cccgaaagg ggggggcaac cggggccgca aaaagggccg 300
ggagctcccc ctggggttgt tgctaaaaaa aggaactgaa aaaccacacc gaatggcccc 360
gggaaccggg gaagggg 377

<210> 7261
<211> 551
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-071-Q1-N6-C3
<400> 7261

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atatattcca gaacggagtt aatacaaaag atacatgtgc cctgctatat catactatct 120
ttatctgtgt atcagggaaac tttcaagtct ccactttctc aaccagcttg atgcccgacg 180
actccaagat ctccaatgct ggaacgtaga tttccggttg cagaggcctg atcactcctt 240
tcgtctggac cttattcttt agcaatagca gggccctat tgctgctgga atgccgacgg 300
tcagcgccat ggcagtgggt gacctgccat tttcaacctt ccggaactcc agtagcgctg 360
cttgggtgctt ttcggcgggg tgcccgtccg ggtattccac ctgcacttcg tgggtggagca 420
gtaccatgtc ttgctcattg tggccatagg ccacctctg ttccattcgc tggcaaatca 480
catcaaatgg gtcgaacaa cccttaggta tttgagtctc ttcatgtagt cccaagaact 540
tgatggtttt c 551

<210> 7262
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-071-Q1-N6-C4
<400> 7262

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tgaactataa ctcataagaa atttaaaaga gggcaccacc aatgatgggt tgggggtaga 120
atgctgctgg gtttgtcaaa gcaagttggg tgaatggcag caattgttgc agttgtaaga 180

gggtgccagc gttaggcgca gcgtgctggg agaacggcaa caactgtggg tgtgtcaaaa 240
aggtagcagg gctcacacca gctagctggc tgaatggtag tagttgttgc tgctgtaaat 300
aagcaggaga gttcaatgct gtcagttggg tgaatggaaa aaattgctgg gggtaggcaa 360
cagatagctg gctgaatggg agttgttggt gttgcaaata agaagcagag ttcaatgcaa 420
ctagttgggt gaatgg 436

<210> 7263
<211> 551
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-071-Q1-N6-C5
<400> 7263

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agagctacgt cattctggat ttgcacgcgc acagtacaca tgctgcgcct tgcacgtcgc 120
gccgactcac tctttttttt ttaaccctgg tagctagtagc tggtcgccgc cggagaagat 180
gctgcactcc tggggctccg acagccggca catcatcggc aaccccgcg cgtactcccg 240
ggccttcgta agcctcacgc ggccgatacct tggcccgggtg gtgccgggac gacacgggtg 300
atacatctgc gtttgggtatc cctctcctgc ccggctgcag gggtagtagt agccccctg 360
tcctcctcct cctccctgcg gcggcggtg ctgctgccgc ccccatggcc accagccttt 420
ctccagaggc ggcattggct cctcgtagcc cctgaccatg ctccggatgg cggcgagcgc 480
gcactcgcg ctcacgtcct ggagctgctg gcagcaccgc atccggagcc cggtgcccca 540
ccggaccggg c 551

<210> 7264
<211> 534
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-071-Q1-N6-C6
<400> 7264

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tacagcatga tgtatcccca aatccaggcc cccaatgtcg attcaacatg taactaacat 120

ttgctgctac aacattctac cctacaacat tgaaggacac aaaagagcaa aaagaaagaa 180
 aaaatgcctt ggatgacact tttattgctc cgatgatctc caacagactg atctgcagat 240
 cacgcatgta accaggtgct gatcattgtc gaatgtcgag acacacagct gcatgtcgca 300
 cgttcacttc atataactgt tccactaggg agtaaagcat ccttgatcac tgtgacaatt 360
 ccacctttga tgaagtaccc gtctgtctcc attgcagctt cttgaacatt gtcagcattg 420
 agtatcttaa cattgtctcc aattcgagca ttcttgtaa tgattgctct cctgatgcat 480
 gaatttttcc caataccaat aggaatgcc a ctttttcgg caaggagttt tttta 534

<210> 7265

<211> 479

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-C7

<400> 7265

ccctatatat tattcctttc catttcaatg gttcattcag gtcattgctc acactgccac 60
 ccatgggtgat ggggtgacact ccgttactca tcgccgctaa acgagtgaac tagctatagc 120
 cctataggta gctagtcagc ggctccatta cattattact acagtacata gtttctcag 180
 tagtagacac cgccggcagc tgcgttgcaa gggcagggac ctgggtgctg cagctgcaga 240
 ccgcacatcg ccgtcagctg ctgcgtacc tgggccgcca tcagcgccgc gagctcgccc 300
 tgcggctgct gctgcaggaa ggactgcagg accacaccgt atgtcgctg gtaccggtgc 360
 agcggctcca cctgctgat ctggtggcag cactgctgct gcagcgctg gcactgtggc 420
 gagccgtagg gcgtcgccgc cgggctgcac tggtgctca agaactcgac gcactggcc 479

<210> 7266

<211> 559

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-D1

<400> 7266

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 ttcgaaaggc acaagcctag aaggcagttt ttttaacaaa aaaagacatc actctataaa 120

ctactcatcg aacatagttt taaactcagg ctgcggtgaa agccttcttg ccagcagcag 180
cagatccagc tggaatgact ttaacgacat tgaacctcac agtttttgat aggggcctgc 240
actggccaat gatgacatgg tcgccttcct tcacacggaa gcatggggag atgtgagctg 300
gaatgttgga gtgcctcttt tcatacctct ggtatttctt aacaaagtgg aggtagttec 360
tgccaacaat gatgggtctg ttcatttttag cactgtggca tgttccagca ataattctgc 420
ctctgataga aacgggtcca gtgaatggac atttcttgtc aatgtaggtc ctttcaattg 480
cttcctggg agtcttgaaa ccaaagccaa tgctctttca aaatcgattg ccacccttgc 540
ctggcttctt acccttgcc 559

<210> 7267
<211> 523
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-071-Q1-N6-D10
<400> 7267

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ctggataaaa acttgcgatg cttctatgca attattttct agggtgaccg atatctcaca 180
agacctcgtc ttcttgacg tacatgccac catcggtctc gacgggcatt gaagggtggg 240
ttccagggtg aatgcaggaa gccccatttt ctctgcaat agtacacaat gcctccgct 300
cctggatagc ccggtcaaga ttgatctgac cactgagctc attgatgaac ttaaggaggg 360
tatcgaagtc catctgctcc ccaattatcc gctgacgata ttttttcaag attgctacgc 420
acaagtacaa gtggaaatgt tctgacaaat aatgggacca cagaacttcc tataaaagca 480
tgatctggtc gaaactgaac tcccttttga attgtataag aac 523

<210> 7268
<211> 556
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-071-Q1-N6-D11
<400> 7268

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ccttgatcg agttcatatg ctataacaca gggacatccc attgttgctg cagccataag 120
agtccagagc aacagaaagg caagaggaaa tccaactcat acccaaccgt gcagtttctt 180
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gatgtccaat ttcttgacat caggcatctc ctcatcttga aactcctccc tcttgagttg 360
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caattcaagc tcttcctcga tcttggaag atcctccttc cgaaagcaa gctttttgtt 480
aatcttgtca aactctgcca agaggtggcc atgttcttct tgcgctcct caaaaatggg 540
ttcttaatgt cttctt 556

<210> 7269

<211> 540

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-D12

<400> 7269

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aaatttatta ttgaattaca actaataagc aatctaaaag aggcaccacc aatgatgtgt 120
tgttggtagg aggctgctgg gtttgctaaa gcaagttgga caaagggcaa caattgttgt 180
agttgtaaga gggttgcggg gttagcgcga aactgctggg agaaaggcag caactgttgc 240
tgtgtcaaga aggaagcacg gcttgctgca gctagctggc taaatggtag taatatttgc 300
tgctgcaaat aagcagcgag gttcagtgcg gccaatgggt taaatggaag aagttgttgt 360
tgatgagagt aggcagtagc tagctggctg aatggtaata gttgttgctg caaataagca 420
gcaggggttca gtgtagatag ttgggtgaat ggaagaaatt gttgttgctg atagtaggga 480
gaaaggtttg ccagagctac ttgggtgatc acaggtagca cgagttgctg cagctgctgt 540

<210> 7270

<211> 553

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-071-Q1-N6-D2

<400> 7270

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aggatgaaca cagcactaac aactgacaca gagcgacctt caatcaaaaa cacagatggg 180
caacaacaaa cagcagacga acgaagataa acactctgga ctagggtaaa caacacggta 240
gcgaacagga taacttggcc gcgcggggccc caccgctcag ttcctccagt tcccgtcgga 300
gttgccgtag ccgccgccac ggttgccacc gccgtagccg ccgccaccac caccgtagcc 360
gccgccgcca ccaccgtagc gcgccgccacc gccgtagccg ccgccgccat caccggggccc 420
gccaccgccc tagccgcccgc ctccacggcc accaccgtac ccgccgccgg cgccgntccc 480
acgggcgccc cgggactggg cctcgttgac ggtgatgttg cggccgtcca gctccttgcc 540
ggtcatgccc tcg 553

<210> 7271

<211> 516

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-D4

<400> 7271

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tcagcagctt ctgtagcatt gctaagctaa tagaaaccgg cattttatta ttatacctgc 120
catacgcaaa ccgcactatc atgaatcact ctaacaggat ggttggtcct ggcaaacagc 180
ctttgattga aaacacatca tgtgcacaac ctaacagaat gtaacacagc ctactcatca 240
gtgacgcac cctctggacgc tggagccaca agcttgatgt acttccaaag agctccactg 300
gtcgacttgt atggcggtgg ggtccatttc ctccgccttc cttcgagctg ctgttcggta 360
aggccaacat cgattaccct cttacttaca tcgatgggtga ttatatcacc actctgggca 420
aggccaattg gaccaccttc ctgtgcttca aggcataatg gaccgacaac aaatccatgt 480
gaccctccag aaaatctacc atctgtcagc aaggcg 516

<210> 7272
<211> 553
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-D5

<400> 7272

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cgctgttggg tttgtcaaag caagttggtt gaatggcagc aattgttgca gttgtaagag 180
ggtgccagcg ttaggcgcag cgtgcaggta gaacggcaac aactgttggt gtgtcaagaa 240
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agcagcagag ttcaatgctg ccagttggtt gaatggaaga aattgctggg ggtaggcagc 360
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taatagggct gac 553

<210> 7273
<211> 555
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-D8

<400> 7273

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agcgaacggt aacacgatac tatagataga taagataact cggccgaagc caggatgggg 180
ccacacatca gtccctccag ccgccgcgc gcgcccgta gccgccacca ccaccctcgc 240
gccgaccgcc gtagccgcca ccgcctccgt agccgccgcc accaccctcg cgccgaccgc 300
cgtagccgcc accgccgcca taaccgccgt cacggcgccc gccaccatag ccgccgcgc 360
cgcgaccgcc gccgtagcca ccgccgcgc gcgccgcc gccgccacgg gactgggcct 420
ggttaacggt gatgttacgg ccgtcgagct ccttgccgtt catgttctcg atagcgtcga 480

gcatggagtt ctcgaggag aaagtaacga agccgaagcc gcgggacctc cccgtctccc 540

ggtcggtgat gacct 555

<210> 7274

<211> 539

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-N6-E1

<400> 7274

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attattacag tataaatcat aaaaaatcta gaagatggca ccaccaatgg tgggcggttg 120

caataaggtg gtaggattcg tcaaagcatg ttggctaaat ggtagcaatt gttgttggtg 180

taagaaggca acaatgtttg ccacattctg tgggtagaat ggtagcaatt gttgctgttg 240

caagaaggca ttaatgtttc ccacaacttg tgggtaaaat ggcaacaaat gttgttgtct 300

caagaaagca acaatgtttg ccacagcttg cagatggaat ggcagaagct gttgttgag 360

taagaaggca taagggctcc cgacaagttg gttaaatggt agtagctgtt gtgcctgcaa 420

gtagatagca gggttcacc cagctagttg attgaatgga agaaactgtt gttgctggaa 480

gtaagcagca aggttcgctg caactacttg attgattgtt ggtagcaact gttgttgta 539

<210> 7275

<211> 551

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-E10

<400> 7275

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aagtataact cataagcaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaac 120

gctgttgggt ttgtcaaagc agagtgggtt gaatggcagc aattgttgca gttgtaagag 180

ggtgccagcg ttaggcgcag cgtgcaggta gaacggcaac aactgttggt gtgtcaagaa 240

ggcaacaggg ctacatcag ctagctggct gaatggtggt agctgttgct gttgtaaata 300

agcagcagag ttcaatgctg ccagttgggt gaatggaaga aattgctggg ggtaggcagc 360
agctagctga ctgaatggta gttgttggtg caaataagca gcagagttca atgcagccag 420
ttggttgaat ggaagaaact gctgttgctg agagtaggca gcaaggtttc ctagcacaag 480
ttgttgtagt tggttgacct tgatgttttg tgccaacaaa tgcacaaaaa gtaactgctg 540
taatagggt g 551

<210> 7276

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-E11

<400> 7276

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tttaccaatt ttaacaaaca tatgcaatat cgctaagctc aaggggggct gcctcaggta 120
gcccagtgc ggggcattag aaatctacag ggggtcccat gaaaatcctt ggttatttga 180
attgcctcaa aagattaaaa acagagtcca cgtatcagct tgccccaact cacaagctt 240
cacgggctac atactaatca gcttttgcgg gagtactttt gatggccatg agagcacatg 300
cctcaaactc tttgactggg tcagcacact tgagcgggtc ctttgcattg gtcttgtaac 360
actcaaggga gcctgccctt tcttgggtgc agggcatggg tttctggtat ggtagcttga 420
actccttgtg gggcagctcc t 441

<210> 7277

<211> 112

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-N6-E12

<400> 7277

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aagggtgcna gccaatccc accatactag gnaaccaggc cagcgctngc cc 112

<210> 7278

<211> 544

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-071-Q1-N6-E2
 <400> 7278

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accggggccaa atactgtccc taccataaaa tgcttggttc tcagggttct aaactctgca 60
taccgaacta aagaatacaa cacagggttc atgtgtagct tgtacagcaa gcaaaggctc 120
agcagctgca attacacagt tgttccagtg gtgacgtggt caaccaact atgctccaat 180
gccccctgttt agggcttggt cttcataatt acagaatcag ttattgcccc atactttctca 240
aaatgcttgg agaatgattc ttcagttgtc tcccaagcaa cgcctccgac aaaaatcttc 300
cccgatgagt cgccgcccgc cccctcaca tcctttccgc cagcatcgcc gtaccagac 360
gccccatecc gacctccccg ccgcccgggg tgccctcct cgtcgacctc ctcacgtcg 420
taccggttca acgcgtgctg gttgtcctcc ggggtacccg ccatgccgca aacttctgcg 480
caaccgccgc ctcggttcg gagcaatcag aagggtgggt tcgaatcctg agcaaaccgt 540
agcg 544
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<210> 7279
 <211> 294
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-071-Q1-N6-E3
 <400> 7279

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gccaattttg gggaaaaata aaatgggaaa aaaaaagagg gggcccccca aagggggggg 120
ggggccaaaa aagggggggg gaaaaaaaaa aaaaaggggg ggggggaaaa aaatgggggg 180
gggggggaaa ggaaaaaaaa aaaagggggg tttttttnaa aaaggnnann cccaaggggg 240
gggaccccg gggggggaaa aaaaaagggg gggcgggggg gggcgccccg gggg 294
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<210> 7280
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-E5

<400> 7280

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agtccccccc gggaaaaaca agtttggggg ggcgggcaaa aaaaaaaaaa atattggccc 120
tttgccaggg gttgggcctt ggggccccac aaaaacacct tggcaaacc ttcggggggg 180
atggggggga ggaacttggc cccccgtag ccgggctccc cggggggggg aacccccctg 240
ttgatcttgg gggcccaagg cccggggggg ggcacaacaa tttccgggac gggggggaac 300
accggggggc ccttaaagg gccccagggg gaaa 334

<210> 7281

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-E6

<400> 7281

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aggggcaaaa caattttgtt tagttaagaa agaggcccaa cagggaat atttacacc 120
cccccttttt ttagggggaa ccctaaccgt tttcccaaaa tagcaccccc ccgttctaaa 180
actaaggga aacccccctc cccccggggg gggtttcccc ttaaaaaaac aaatttttgg 240
gaaaccttgg gggcaataa aaaaacaaaa tttttctccc ccaaagtta aaaaaaaaaa 300
aaaaaggggc caagggtttt ttttttagaa tcttaagggc ctttgttcc ctttgaaaa 360
ccaaaacggg gggaaaaacc accccaaaaa ttttcttttg gaagggacaa aggggcaaaa 420
aaaaacacct taaatgaac ttttt 445

<210> 7282

<211> 332

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-071-Q1-N6-E7

<400> 7282

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gtggggtttca ccaaaaaagt ggggggaaaa ctgaaattaa acaaataaaa aattaaaaaa 120
aatttttaaaa aaaactcggg gggggggggg nggggggttaa ttggaaaaaa aaaaaaaaac 180
ccagcgggttg gggggaaaaa gagatttttt taagcccaaa aaaaaaactt cccagaaaaa 240
aaaatgggta aaaagaaaaa aaaaaaaaaa aagggggaaa gtttaggagg gggggggagt 300
attagccgcg gaaaaaaagg tgtttggggg cc 332

<210> 7283

<211> 547

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-E9

<400> 7283

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ttaggagcca agtagggcgt gccctgacca tggtttacac ggatgattcc ttccttcacc 120
atagaacatg tgacgacaaa gtcaaagtga aggtaataac atctgcattg ccacatgacc 180
acataatctt cacaagtgtc tacataagac atcagctacg gctacgctcg aaatacgctt 240
ctttgtacag atccatgtta gcttccaaca ggaatttttc ttagcatgga cagaagcagc 300
caagaaccgc tagggttcag ggtgacggtg aaatgcgcat ttaccagtct tcatccagag 360
tcgccctatg gaagcacagc actgtgcata gcaaggatga agaaggacgt gaactcgatg 420
aacatggccc cggctcgcg taagccagcg tgcctcagaa ttgctggaat agcaaggctt 480
cccatggccg acgcaccagt caagaatttt gcagcattaa tccaccctcc accttctctg 540
ctggtca 547

<210> 7284

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-F1

<400> 7284

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gccccttttg ggggcccctt tattgggaaa aaaaagagg gggcccccc cggggggggg 120

ggggcccccc cagggggggg ttttttaaaa agaccggggg gggggggaaa aatttggttg 180
 ttggaggggg ggggcccccc agggggggcc ccccgcccg ggggaaaaaa aagggggggg 240
 gggggggggg ggcccccaa agggggccca atattttgtg ggggggaggg aaaccggtg 300
 ggaggggaagg aaagg 315

<210> 7285
 <211> 576
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-F10

<400> 7285

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 gagggcacca ttatcgagta catctcatat gtaatctaaa agaggcacca ccaacgatgg 120
 gttgctgcca cgacaaggca gggttcatca aagagaactg gttgtatggc agcaattggt 180
 gctgctgtag gaaggcagcg accaatgggt tagccaccgc tagtggatta agtaactggt 240
 gtcgctgttg taggtacgca gcagagttag acacagtcag ttgggtgaat ggaagtagtt 300
 gttgcaagta ggcagcaggg tttgccacag ctagctgagt aagagctggg acaatttggt 360
 gcagcaactg ttgttgcaac aactgttggt gcaggtatgt aggtgcattg cccatagcga 420
 gggggctaga tgaaagaagt tgttgcgtgt gtaggtaggc gatagggttc accatggcta 480
 gttgactgag cgctggtaga aactgttgca actgttggtt ttgttggtat gcagctacgt 540
 ttgccaaaac agtgggttgg atgcaagcag ctggtg 576

<210> 7286
 <211> 564
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-F11

<400> 7286

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 attggtggtg tatcatacaa tactttattg tcgttttttag agtttaagaa agggaagacg 120
 aacaacctca acctttaaaa agttcacagt acctattctt cttattggtg aaacgataga 180

ataccaacgg cgaaagaaaa catcataaat ggcagatgaa gcctccgaag aaaccggcag 240
 cccccactgc gaggggtgtcc agccggccgg gcccggcggc gatcagctgt ggttgtggtc 300
 gttgtgcggc gctgccggtg ccgccatcgc ctgctgcctg ataaccgtgt cctcgaggga 360
 ttggagggtt caccgaacga tgggtgtccac gaagatgcgc gtctcctcca cgggtgtccc 420
 cggcggcacg tccaccacat aggactcgac gaccatgggt agcgggccgc cctctgaggc 480
 cgctctgtgc acgggtgtca cggagcggta gttggcgagg cggtggtcgc cgcccaggat 540
 ccggaagctg atcacccgcc gctc 564

<210> 7287

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-F2

<400> 7287

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 ttttttgaat tcccccaaa aaccatcta aaagagagg cccccccaa gatgggttgt 120
 tgggaggagg ccctgggtt tgtcaaaaca agggggccaa agggcaacaa ttgttgtaat 180
 tgaaaaagg gggcggggtt acccccaaac cgcgggaaaa aaggcccaa ccgttgctgg 240
 gtcaaaaaag aaaccccggt tgctgcaact agctggctaa aagggaataa aatttgccgc 300
 ggcaaaaaac ccgcgagggt caaggcgccc cattgggtta aaggaaaaaa ttgttggtga 360
 taaaagaagg caaaaccac ccggccgaaa gggaatagg gggcgggcaa aaaaaccaca 420
 gggttcaagg gaaaagggg ggtgaa 446

<210> 7288

<211> 557

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-F4

<400> 7288

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gaacactggt gggtttgtca aagcaagttg gttgaatggc agcaattggt gcagttgtaa 180
gaggggtgcc gcgtaggca tagcgtgcag gtagaacggc aacaactggt gttgtgtcaa 240
gaaggcagca gggctcacat cagctagctg gctgaatggg agtagttggt gctgctgtaa 300
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agcaactagc tggctgaatg gtaattggtg ttgcaaataa gcagcagagt tcaatgcagc 420
cagttgggtg aatggaagaa actgatggtg ctgagagtat gcagcaaggt ttgctagcac 480
aagttgttgt agttgttgtg ccctgatggt ttgtgccacc aaatggacca aaggtaactg 540
ctgtaatagg gctgacg 557

<210> 7289
<211> 405
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-071-Q1-N6-F7
<400> 7289

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acgaccacga gaactggggt caactgtcaa ggcataatgt taggggaata caaaatagag 120
gccgggtcta taaaagggga gctggggcat taaaacaaa tatccaatcg acgcagatcg 180
ggccttcgtc acttcgggga ctcttgggcc atgactgggg cagttacttc cgggcttggg 240
acttcctttg gtccttggga gctttctcct tttcgcgttt tttcgccgga taaacccttt 300
gttgggtttt taaagcaaga cgttccaaat tttttcgggc tgggtctggt tttccttggg 360
cctgaggctt aatataacgg tcaagagctt tttgtttcta aagct 405

<210> 7290
<211> 563
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-071-Q1-N6-F8
<400> 7290

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gcaccattat cgagtacatc tcatatgtaa tctaaaagat ggcaccacca acgatggggt 120

gctgccacga caaggcaggg ttcatcaaag agaactgggt gtatggcagc aattggtgct 180
gctgtaggaa ggcagcgacc aatgggttag ccaccgctag tggattaagt aactggtgtc 240
gctggttag gtacgcagca gagttcgaca cagtcagttg gttgaatgga agtagttgtt 300
gcaagtaggc agcaggggtt gccacagcta gctgagtaag agctggtaca atttggtgca 360
gcaactggtt ttgcaacaac tgttgttgca ggtatgtagg tgcattgccc atagcgagcg 420
ggctagatga aagaagttgt tgctgttgta ggtaggcgat aggggttcacc atggctagtt 480
gactgagcgc tggtagaaac tgttgcaact gttgtgtgtt ttggtatgca gctacgtttg 540
ccaaagcaaa gtgggttgga tgc 563

<210> 7291
<211> 532
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-071-Q1-N6-G1
<400> 7291

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atgtacatta ctcaagtgaag cagcagctga gttcgagata tgaggagatg gcaagcataa 120
acccaattc aaatccgttc ccaacattgt caccaacca acgcgaagat aaattattca 180
ctgcatgcaa tacgccaagc acatgcacaa gccacatat tacagaacca aatgaggtgc 240
aaacttaagt gccaatgac caaaatagca ttatgacaaa cttagaagcc ctgttcgatc 300
aggtaatcgc cgagcctttc caccaccata ttgcattgcc ctggagtcac tggctcatca 360
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tttctctgga tgacaactcc aggttcacct tggatcacca tgtacttcgt acctccaaca 480
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<210> 7292
<211> 453
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-071-Q1-N6-G10

<400> 7292

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ttttttatttt taagttaaga ttttttttatt ttgaataaag gaaagtgagt ataaaagaat 120
agaaaaaata aaaaaaaaaa aaaaaaaagg aggggggggg ggggggggnag agtagggaaa 180
aaaaaaggag aaggggggaga agaggggaaaa aaaaggaggg agagaggaaa gggaaagaag 240
agaaaaagga ggaagagaaa aagaaaggaa agagagagan ggaaggaggg gaggtagagg 300
agggtaagag ggaaagagaa ggaagaggaa ggagaagggg ggggaggagg agagaaggag 360
aagagaggag agaaggggga gaagaagaaa aaacaaaaag gggggggggg ggggaggcag 420
taaagaagag gagaaaaaaa agaaaaagaa gaa 453

<210> 7293

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-G11

<400> 7293

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caaattgcaa actctttttg ggcagaggcc catacccca ccctaacctg aaacacaccc 120
ccattctgct acatgattgg ggccccaaga aggcaacctt aacaaaactt ttaaggttac 180
aacggggtaa gccctacagg gacttacaaa aaaattcagc tttaaccaag ttaaggggtcc 240
ccagctccct atcaaaaacc aaagaaacca agctcaggcg ccctttcctt ttaaaagggt 300
tcaaagtatt ggtttatgat tggcacaggg ggcaatatac cagttcctga accaatcccc 360
cccataaaat caccaggac gggcaatgag ccaatgctta ccccccaaa tgccgcaacg 420
gggg 424

<210> 7294

<211> 550

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-G2

<400> 7294

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actagggcaa acaaaaaggg ctggttaagat ggggcagccg cttcttcttc tgttccatat 180
cagaatccaa tacaattcga agaagtagaa gctggtgaaa accatggcgt acaggacgat 240
gatgatctaa gccttctcta ttagctgcaa gacctccgct tcggtgggca gcgacgggat 300
cgcccccttc ttctgtgttg tgatcgctcc gcacgcgtta gcgaatttaa tcgactccac 360
aagcttcttc tcattcttga gcgaggatgg atctttaacg atcctttgga gcagagcacc 420
aacgaacgcg tcacctgcgc cagttgtatc aacttgttgt actttgaagg aaggcacagc 480
gccatggaaa tccctggcat agtacttgca cccttgatct ccaagagtca ctaggagcag 540
cttcatggta 550

<210> 7295
<211> 330
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-071-Q1-N6-G4
<400> 7295

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ggggagaagg ggagaggggg ggaggagggg ggggagagag gggggggaaa ggaggggaga 180
ggaggagaag agaaagaagg agagaagggg aggaagaaga gaggagagag gagaggagga 240
aagagagggg ggtggagggg ggggagggaa agaaggaaga aaagaggggg aggaggagaa 300
agggagggag agagaggagg agggagagag 330

<210> 7296
<211> 550
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-071-Q1-N6-G5
<400> 7296

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aactataact cataagcaat ctaaaagagg gcaccgccaa tgatgggttg ttggtagaac 120
 gttgttgggt ttgtcaaagc aagttgggtg aatggcagca attgttgtag ttgtaagagg 180
 gtgccagcgt taggcgcagc gtgcaggtag aacggcaaca actgttggtg tgtcaagaag 240
 gcaacagggc tcacatcagc tagctggctg aatgggtgta gctgttgctg ttgtaaataa 300
 gcagcagagt tcaatgctgc cagttgggtg aatggaagaa attgctgggg gtaggcagca 360
 gctagctgac tgaatggtag ttgttggtgc aaataagcag cagagttcaa tgcagccagt 420
 tgggttgatg gaagaaactg ctgttgctga gagtaggcag caaggtttcc tagcacaagt 480
 tgttgtagtt gttgtgcctt gatgttttgt gccacaaaat gcaccaaagg taactgctgt 540
 aatagggtg 550

<210> 7297

<211> 539

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-G6

<400> 7297

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 tgctgggttt gtcaaagcaa gttggacaaa gggcagcaac tgttgcagtt gtaagagggt 180
 tgcgggggtta gccacaaact gctggtagaa cggaagcact tgttgttggt tcaagaagga 240
 agcgggggctt gttgtagcta gctggccaaa tggtagtagt atttgctgct ggaaataagc 300
 agaggggttc agtgcggcc aattgggttaa tggaagaaat tgttgctgct gagagtaggc 360
 agtagctagc tggctgaatg gtagtagttg ttgttgctgc aaataagcag cagggttcag 420
 tatagacagt tgggtgaatg gaagaaattg ttgttgctga gagtaggggg aaagggttgc 480
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<210> 7298

<211> 540

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-G8

<400> 7298

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aattgttgca gttgtaagag ggtgccagcg ttaggcgcag cgtgctggta gaacggcaac 180
aactgtgggt gtgtcaagaa ggtagcaggg ctacaccag ctagctggct gaatggtagt 240
agttgttgct gctgtaaata agcaggagag ttcaatgctg ccagttgggt gaatggaaga 300
aattgttggg ggtaggcaac aggtagctgg ctgaatggta gttgttgggt ttgcaaataa 360
gaagcagagt tcaatgcagc tagttgggtt aatggaagaa actgctgttg ctgagagtag 420
gcagcaaggt ttgctagcac aagttgttgt agttgttggc ccctgatgtt ttgtgccaat 480
aaatgcacca aaggtaactg ctgtaatagg gctgatgatt gttggaggaa caaggggtgat 540

<210> 7299

<211> 510

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-G9

<400> 7299

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caatggtagc ctacttacac catctaaagg cccacagaaa tggagcactt caaactcttg 180
acctgcaccg ttataccatc ggaaacttgt atcaatggag atgatactgc acccttttta 240
tacgcaatat aagaggaaac tttatcctat acctggggta tctggtttagc aatcagtgcg 300
ctgcaccgga ctccaggcag gcaaggcact caacaggctc agcgagcccg taaacagatt 360
caatgcacct gctgtggaac acatggtggc atgccaaaac tgcaatgact ggtggagcat 420
tggcatcacg gccagcatcc ccttgtgtcc ggaaagcaac atcaagcttg cagagctggc 480
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<210> 7300

<211> 557

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-071-Q1-N6-H1

<400> 7300

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tagctttaat ccgaagcgaa caactccctc ctattcattt gaattcaaatt ttgaatggaa 180
ggaaatttaa tccccctcaa tccaccctaa ccgaacatgg cctaaagatt tttcagatgt 240
atgtgtctcc acatcacaac tcaagggatc agagtcaatt cgactggcca taagctagct 300
acgatataca acattccaga agtcttgctg aaccgtggca caccatggag gtcaaggaaa 360
aaagaatata tggctacctg gatgtgtatg ttttaccagt aaattctcat ctgggaagat 420
gcctccatat atagactcac tccctttgcc gtcacctcta actatgtcac cgccctgaat 480
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ggaccccaca cctttttt 557

<210> 7301

<211> 576

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-H10

<400> 7301

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agttagcaaa agcacagctg acacaacaaa acacctacgc cggcgtagag cctggaacag 120
tgcacgcctc gctctcccat aataagcgca tgcggggggc aaaaaattct gatacaacag 180
gatttcgata gtctattatt agccaagtcc cagattccgc atgtccctcc tttgagcagt 240
ggagccctct ttcttgatcc tagacggcct gacaatacgg tcgatgatcc cgtactcgag 300
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tgcttcgttt tctatatcgt cagcctgtcc tcgagctgct ccggcagggtg attggagtga 480
aatccggata aaggcatacc agtgcgtgaa cccttttcac cggctgcaga gatgaatcct 540
gccaggttga atgcaaagcc ccaacagtga gtgcca 576

<210> 7302
 <211> 514
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-071-Q1-N6-H4

 <400> 7302

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ctagctagct agccagcggg tatactacag cacatagttt cttcagtggg ggacaccgcc  180
ggcagcagcg taggggcatg gagtcggctg ctgcaggccg cacatcgccg tcagttgctg  240
cgctatctgc gccgccaaca gcccgcgcac ctggccgctt tgcggctgct gctgcaggat  300
ggactggagg accaagccga agatcgcttg gtaccggtgc tgcggctcca cctgcctgag  360
ctgctggcaa cactgctgcc gcaacgactg gcaactgagc gagcagtagg gcgtcgccgt  420
cgggctgcac tgatgcctca gaaactcgac gcaactgggc caggatcggg gtgctgccaa  480
cgccgcaagt tcctgcagc tggcacgggc ttgg                                     514
  
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<210> 7303
 <211> 543
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-071-Q1-N6-H5

 <400> 7303

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aatttattat tgaattacaa ctaataatca atctaaaaga gggcaccacc aatgatgtgt  120
tgttggtagg aggctgctgg gtttgtcaaa gcaagttgga caaagggcaa caattgttgt  180
agttgtaaga gggttgcggg gttagccgca aactgcttgt agaaaggcag caactgttgc  240
tgtgtcaaga aggaagcacg acttgctgca gctagctcgc taaatggcag tagtatttgc  300
tgctgcaaat aagcagcggg gttcagtgcg gccaatgggt taaatggaag aagttgttgt  360
tgctgagagt aggcagtagc tagctggcta aatggtaata gttgttgctg caaataagca  420
gcagggttca gtgtagacag ttggttgaat ggaagaaatt gttgttgctg agagtaggga  480
  
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gaaaggtttg ccagagctac ttggttgatc acaggtagca cgagttgctg caactgttgt 540
gcc 543

<210> 7304
<211> 488
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-H7

<400> 7304

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aatcacatg ttctttttct tatgggaaac cagtcacaca ttccgcacca aggtttggcg 120
gcttatatat agtatatgaa acagagctgt agctcgctca gtcttgttta tcttcttccc 180
cggatgcacc agcaaccttc gctgctgcgg atgcatagct cacgctgcta tccctcatgt 240
tcttgactg gctggactgc tcgtagcgga caaagcctat cttaattttt ttcgagcaat 300
gtttcaacat gtgaaggaag acgctgatgg ggtggcgctc gcataatggg ttctcgact 360
cctgcaggta ttctttgaac gctacgggat cgccagcttc tatgatctcc atgcccatac 420
gggccaaggg ctcgatagat ttatggatgg caccgtgctt cttttcgtag tatgtgtagc 480
taaacctg 488

<210> 7305
<211> 570
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-071-Q1-N6-H8

<400> 7305

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cattcaggtc attgctcaca ctgacactgc caccatggg gatgcgtgac acattattac 120
tcaatcatcg ccgctaaatg actcaactag ctagctagcc agcggctata ctacagcaca 180
tagtttcttc agtgggggac accgcgggca gcagcgtagg ggcatggagt cggctgctgc 240
aggccgcaca tcgccgtcag ttgctgcgct atctgcgccg ccaacagccc cgcgacctgg 300
ccgctttgcg gctgctgctg caggatggac tggaggacca agccgaagat cgcttggtac 360

cgggtgctgcg gctccacctg cctgagctgc tggcaacct gctgccgcaa cgactggcac 420
 tgaggcgagc agtagggcgt cgccgtcggg ctgcactgat gcctcaggaa ctcgacgcac 480
 tggcccagga tcgggggtgct gccaacgccg caggttccct gcagctggca cgggcttgga 540
 tgcggctggt ggcacgggca tgggtgtggc 570

<210> 7306

<211> 567

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-K6-A1

<400> 7306

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 gaccgcgcatc atggcacact atctgggtcc gagaacgtta agcgcttata tttaccaag 120
 ggcagacctc ataagagggtg ctgcgaggta ggtgcggcaa gaaacaagga tgggggcatc 180
 cttgctcggg attggtcatg gttagctcca gcatgatgtt tgttgcagcc ccctgcctaa 240
 cactgtgcct gcgatccgtc accaccacct tatttctata cagcgctctt gaacatatcc 300
 caccgaagat taacaagggt gaccgcagca aattatcaca ccctgtggca actcgaacaa 360
 taagggtgta aaagggtggc tcattacgag tctgccttgc tcgccaagct gggatatccga 420
 cccttctggg actgtctaca agccaccact gtttaccagg atgggtcctt gctaaccctt 480
 gcagtgcttt acctttatgc agatgacctg attgaacaat gttccactgg tgcattcatg 540
 gctgctcttc ctcattactg gcagatc 567

<210> 7307

<211> 555

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-A10

<400> 7307

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 cctgcatagg ttgctacacg ntatatattc tgaagaagag atcgagatga ccagcgtgtg 120

ngaagaccaa ggttctgcct ggctcaaca agatctttga caaggatggc aagaaggggt 180
 gggctgcagg cttcttgaag tccttcaaca aggaggagat tgacaaggag attgaggaca 240
 agaagacaga gctggagccc aaggctcgtgg aggcctacga agcatctcct cctgaggtca 300
 aggctctgtt caaggataag aagccagtca aggtcagcaa gaagaactcg gctgcagtca 360
 ccaagttcct cgatgagctg gctaagattg acttccctgg agccaagggtg gtgagcgagg 420
 cgggtggccaa gtccggcacc tcgcccctgc ttccggcgat caccttcac ttggacaagg 480
 tcgcaccgtt tatccccaag gaggagccca aggcggagcc ggcgggcgag gccacctccc 540
 gggaagtcgc cgtgg 555

<210> 7308
 <211> 571
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-A11
 <400> 7308

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 ccaagaatta gccctccttg cgcttcttgc cctttttgtg agcgcaacaa atgcgttcat 120
 tattccacaa tgctcacttg ctcttagtgc cattattcca cagttcctcc caccaggggg 180
 ttgatgggct tncnaacacc tagctgtgca agccaacatg caacaacaag cgcttgcggc 240
 gagcgtctta caacaaccaa ttgccaatt gcaacaacaa tccttgccac atctaacaat 300
 acaagccatc acaacgcaac agcaacaaca gttcctacca gcactgagcc acctagccat 360
 ggtgaaccct gccgcctact tgcaagagca gctgcttgca tccaaccac ttgctctggc 420
 gaacgtagtt gcaaaccagc aacaacaaca gctacaacag tttctgcaa cgctcagtca 480
 actagccatg gtgaaccctg ccgcctacgt acaacaacaa caactgcttt catctagccc 540
 gctcgatgtg ggcaatgcac ctacatacct g 571

<210> 7309
 <211> 585
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-A12

<400> 7309

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cgcccgccggc gggcgccgc tgtgcttcgc ggccctggcg gccgtggccg tctgccaaagg 120
cgaggctcagc cggcagaggc tcagggacct gcagtgcctg caggaggtcc aggagagcgc 180
gctcgacgcg tgccgccagg tcctcgaccg gcagctaacc ggccggccgc tcggcgccccc 240
gttccgggtg ggcaccgggc tccggatgcg gtgctgccag cagctccagg acgtgagccg 300
cgagtgcgcg tcgcccgcca tccggagcat ggtcaggggc tacgaggagg ccatgccgcc 360
tctggagaaa ggctgggtgg catggggggc gcagcagcag ccgccgccgc agggaggagg 420
aggaggacag gggggctact actaccctg cagccgggca ggagaggat accaaacgca 480
gatgtatcca ccgtgtcgtc ccggcaccac cgggccaaagg atcgcccgcg tgaggcttac 540
gaaggcccg gagtactccg cggggttgc gatgatgtgc cggct 585

<210> 7310

<211> 564

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-A2

<400> 7310

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tcagccctat tacagcagtt acctttggcg catttgcttg cacaaaacat caaggcacia 120
caactacaac aacttgctgc aggaacctt gctgcctact ctcagcaaca gcagtttctt 180
ccattcaacc aactggctgc attgaactct gctgcttatt tgcaacaaca actaccattc 240
agtcagctag ctgctgccta ccccgagca tttcttccat tcaaccaact ggcagcattg 300
aactctgctg cttatttaca acagcaacag ctaccacat tcagccagct agctgatgtg 360
agccctgttg ccttcttgac acaacaacag ttgttgccg tctacctgca cgctgcgcct 420
aacgtggca cctcttaca actgcaacaa ttgctgcat tcaaccaact tgctttgaca 480
aaccaacag cgttctacca acaaccatc attggtggcg cctctttta gattgcttat 540
gagttatact tcaataatga agtt 564

<210> 7311
 <211> 598
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-A4

 <400> 7311

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caaaaattttt gctcctttat gctccttggg ctttctgcaa gtgctgtac  ggcgaccatt  120
ttcccacaat  gtcacaagc  tcctatagct  tcccttcttc  ccccgtagct  ctcaccagcg  180
gtgtcttcgg  tatgtggaaa  acccaattct  tcaaccctat  aggatccaac  aggcaatcgc  240
agctggcatc  ttacctttat  cacccttggt  cctccaacia  tcctcagccc  tattacagca  300
gttacctttg  gtgcatttat  tggcacaaaa  catcagggca  caacaactac  aacaacttgt  360
gctagcaaac  cttgctgcct  actctcagca  acaacagttt  cttccattca  accaactagc  420
tgcattgaac  tctgcttctt  atttgcaaca  acaacaacta  ccattcagcc  agctatctgc  480
tgcctacccc  cagcaatttc  ttccattcaa  ccaactgaca  gctttgaact  ctctgtctta  540
tttacagcag  caacaactac  taccattcag  ccagctagct  ggtgtgagcc  ctgctacc   598
  
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<210> 7312
 <211> 573
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-A5

 <400> 7312

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gttcctgcat  accaagaagt  tgggtggtgt  agtgctcgc  aaagtgccat  tgaggcccag  180
aaagctactg  ctgcggcatc  tcagctcact  cgcagtgggt  catcaagggc  aatnggaaaa  240
tgcacaggac  ggcggggaga  ggaagtaacg  agatagagtt  cgtttttttt  tatcgtctat  300
gctacatctt  atggatgcat  atgatcctgc  ctgacgattc  tcaggtctca  gctctccgtg  360
  
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gctccgtgtg caaatctctg ccacgggctg gttttaacgc ctgattggat gggtgcccgc 420
 tggcgcgccc ggccagcctc gtacggccac ttcggacgca tctgcatctt cggaggtacc 480
 cgcagatgta gatgaatggc cgtaaaatgg tttggtctgc gtctctttac atataggcaa 540
 ccaaataaaa ctcagataaa gttaactcat gtg 573

<210> 7313

<211> 585

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-A6

<400> 7313

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 caattttccc tcaatgctca caagctccta tagcttccct tcttccccca taccttccat 180
 caattatagc ttcagtatgn tgaaaaccca gctcttcaac catataggct tcaacaagca 240
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 ttggtgcagt cattggtaca aaccatcagg gcacaacagc tgcagcaact cgtgctacct 360
 gtgatcaacc aagtagctct ggcaaaccct tctccctact ctcagcaaca acaatttctt 420
 ccattcaacc aactgtctac actgaaccct gctgcttatt tgcagcaaca actattacca 480
 tttagccagc tagctactgc ctactctcag caacaacaac ttcttccatt taaccaattg 540
 gccgcactga accccgctgc ttatttgcag cagcaaatac tactg 585

<210> 7314

<211> 579

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-A7

<400> 7314

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caagctccta tagcttcctt ttttcccccg tacctctcac cagcgtgtct tcggtatgtg 180
 aaaaccaat ttttcaaccc tacaggatcc aacaggcaat cacagctggc atcttacctt 240
 tatcaccctt gttcctccaa caatcatcag ccctattaca tcagttacct ttggtgcatt 300
 tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg 360
 cctactctca gcaacagcag tttcttccat tcaaccaact agctgcattg aactctgctt 420
 cttatttgca acaacaacaa ctaccattca gccagctacc tgctgcctac cccagcaat 480
 ttcttccatt caaccaactg gcagcattga actctctgc ttatttacag cagcaacaac 540
 tactaccatt cagccagcta gctgggtgtga gccctgcta 579

<210> 7315
 <211> 568
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-072-Q1-K6-A8
 <400> 7315

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 ttacacagtt cctccacag ttttcatggg cttogaacac ccagctgtgc aagcctatag 120
 gctacaacaa gcaattgcgg cgagcgtctt acaacaacca atttcccagt tgcaacagca 180
 gtgcttggca catctaacaa taaaaccat cgcaacgcaa cagcaacaac aattcctacc 240
 agcactgagc catcctagcc atggtgaacc ctgccgcta cttgcaacag cagttgcttg 300
 catcaaacc acttgctctg gcaaacgtag ttatcaaacc agccacaaca acagctgcaa 360
 cagtttctgc cagcgctcag tcaactagcc atggtgaacc ctgccgcta cctacaacag 420
 caacaactgc tttcatctag cccgctcgct gtggccaatg cacctacata cctgcaacaa 480
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 tacttgcaac agctgcttcc attcaacc 568

<210> 7316
 <211> 590
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-B1

<400> 7316

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cgaccatttt tcctcaatac tcacaagctc ctatagctgc ccttcttccc ccataccttc 180
catcaatgac cgcttttagta tgtgaaaacc cagcccttca accctacagg atccagcaag 240
caatcgcaac aagcaactta cctttatcac acctgttctt tcaacaatcg ccagccctat 300
ctttggtgca gtcattggtg caaaccatca gggcagaaca gttgcagcaa ctctgctac 360
cagtgatcag ccaagtagct ctggcaaacc tttccccta ctctcagcaa caacaatttc 420
ttccattcaa ccaactgtct atactgaacc ctgctgctta tttgcagcaa caacaactac 480
taccattcag ccagctagct actgcctact ctccagcagca acaatttctt ccatttaacc 540
aattggccgc actgaacccc tctgcttatt tccagcagca aataactacta 590

<210> 7317

<211> 556

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-B10

<400> 7317

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tgctaaactc aagcgcttgg ctgctgcca gggagaaggaa ctggcaaaaa tgcgggggca 180
tgaccttaaa gggaagcaat ccttatacga caaatacaca aaatttttgt cggttactaa 240
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gctgtgccag aaactgggct tcgtgcttgt gcgtccgtag cgcctttcca tgagaaagtc 480
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atcaactgtt tcactt 556

<210> 7318
 <211> 565
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-B2

<400> 7318

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 ctccttggtc tttctgcagt gctgcntacc gcaaccattt tcccacaatg ctcacaagct 120
 cctatagctt cttttcttcc ccatacctc tcaccagcgg tgtcttcagt atgtgaaaac 180
 ccaatcttca accctacagg atccaacagg caatcgagc aggcattcta cttttatcac 240
 ccttgttcct ccaacaaccg tcagccctat tacagcagtt acctttggtg catttggtg 300
 cacaaaacat caaggcacia caactacaac aacttggtg aggaaacctt gctgcctact 360
 ctcagcaaca gcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt 420
 tgcaacaaca actaccattc agtcagctag ctgctgccta ccccagcaa tttcttccat 480
 tcaaccaact ggcagcattg aactctgctg cttatttaca acagcaacag ctaccaccat 540
 tcagccagct agctgatgtg agccc 565

<210> 7319
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-B3

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 atacctgtct ccacaacata cctatacagc agtccttggg ctttatggca caaacatagg 180
 ccacactaca aactggcta gcaaactgtg cctctctcac acacagtttt cttcaacca 240
 atanctgatg aacttctttt attgcacaca cactaccatc accacttctg ctgcctaccc 300
 cacatttttc cttcaaccat gacacatgaa ctctcctgtt attacagaca acaactacta 360

ccatcaccac tactgggtgtg agccctgcta c

391

<210> 7320

<211> 587

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-B4

<400> 7320

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atggcgctcgt cgtctagcag cagccaccgc cgctcatcc tcgcagccgc cgtcctgctc 120

tccgtgctcg eggctgccag cgccagcgcg gggacctcct gcgtgccggg gtgggcatc 180

ccgcacaacc cgctcccag ctgccgctgg tacgtgacca gccggacctg cggcatcggg 240

ccgcgcctcc cgtggccgga gctgaagagg agatgctgcc gggagctggc ggacatcccg 300

gcgtactgcc ggtgcacggc gctgagcatc ctcatggacg gcgcgatccc gccgggcccc 360

gacgcgcagc tggagggccg cctagaggac ctgccgggct gcccgcgga ggtgcagagg 420

ggattcgccg ccacctcgt cacggaggcc gagtgcaacc tggccaccat cagcggcgctc 480

gccgaatgcc cctggattct cggcggcgga acgatgcct ccaagtaact gcgaagagca 540

tagtgcatga ggaatgagct tgtagctagc tcatatgtct gaataat 587

<210> 7321

<211> 568

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-B5

<400> 7321

cagnccatta gctttatcta ctccaggggg cgggaggacc cgatcgacac catgagggtg 60

ttgctcgttg ccctcgtct cctggctctc gctgcgagcg ccacctccac gcatacaagc 120

ggcggctgcg gctgccagcc accgccgcg gttcatctac cgccgccggt gcatctgcc 180

gctgcggttc acctgccacc tccggtgcat ctcccaccgc cgggccacct gccgccgcg 240

gtccacctgc caccgccggt ccatgtgccg ccgccggttc atctgccgc gccaccatgc 300

cactacccta ctcaaccgcc ccggcctcag cctcatcccc agccacaccc atgcccgtgc 360
 caacagccgc atccaagccc gtgccagctg cagggaacct gcggcggttg cagcaccctg 420
 atcctggggc agtgcgtcga gtttctgagg catcagtgcg gcccgacggc gacgccctac 480
 tgctcgctc agtgccagtc gttgcccagc cagtgttgcc agcagctcag gcaggtggag 540
 ccgcagcacc ggtaccaggc gatcttcg 568

<210> 7322
 <211> 465
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-B6

<400> 7322

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 tcctcatggg tcgcaccatc aacaagccaa ttaagctcaa tccaataatc caataataaa 120
 actgaatcct cctcttcttt gggggggggg ggggcctctg gtcttgctaa ggtctgacaa 180
 ccttttgtac atacactatn aaatggggag gagctgcatt ttgatcctca cgcttacaat 240
 tatctcctag gttttcncat tccctgggtc tgcttgattt tttatnttat ccgtgatcaa 300
 cttgcactcg tcacttcaca tttccctcat acattctatg ctcttactga aactcatttc 360
 tccttaatct ttattcctta aaaacctaatt cattcacaaa attagccatt gatactatca 420
 caaccctgaa atgctttttc atgtccttca catagtgcct ctttt 465

<210> 7323
 <211> 531
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-B7

<400> 7323

gtttggctct ggnaattaca ctcagggcaa ggtgacaatt atcgccaagc ctggagtga 60
 gttggagatt ccagatggag acgtactttg aaaacaaggg aggcgccaaa caaggctcca 120
 atggtgtgtg cgcgcgcgcc tggtgtatgc caaaaccatt ctctcaatc gcaaaagttt 180

agaacctttc aacctcacac ggctatatgg ttatcaatat cgaaactccg aagatctgaa 240
 gggctggctc ctaacctgta aaccaagttg cacaaaacaa gttatagacc acattggaaa 300
 ctcgagcagg atttggttaac ttcaagatgc cgcaagattg tcgtataggt gagtgctgta 360
 gaaaagttgc actgagatat caacagaaca catagaaaac tagagaaaga ttcgtaagct 420
 tcctaagttg tagaagtcac cagagttatg aatgacgatg atgatcagtt actacaaaaa 480
 ggggtgggatg atttaccttt tggtttatcgt gcaatagtga aatttgatgc t 531

<210> 7324

<211> 578

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-B8

<400> 7324

cttncttcag taccatcaat catcatggga tcgttatagt ataggcacca aatcaaactc 60
 gcaacatcaa ttatctaact ccaaaaccat gaagctgggtg cttgtgggtc ttgctttcat 120
 tgcttttagta tcaagtgttt cttgtacaca gacaggcggc tgcagctgtg gtcaacagca 180
 gggccatgag cagcaacatc atccacaaca acatcatcca caaaaacaac aacatcaacc 240
 accaccacaa catcaccagc agcagcaaca ccaacaacaa caagttcaca tgcaaccaca 300
 aaaacatcag caacaacaag aagttcatgt tcaacaacaa caacaacaac cgcagcacca 360
 ccaccaacaa caacaacaac agcaccaaca acaacatcaa tgtgaaggcc aacaacaaca 420
 tcaccaacaa tcacaaggcc atgtgcaaca acacgaacag agccatgagc aacaccaagg 480
 acagagccat gagcaacaac atcaacaaca attccagggt catgacaagc aggaacaacc 540
 acaacagcct cagcaatatc agcagggccca gggaaaaa 578

<210> 7325

<211> 570

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-B9

<400> 7325

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ccaaccatgg gtgaagnaga agtcccacat caacattgtg gttattggcc atgtcgactc 120
tggcaagtcg accaccacag gacaccttat ctacaagctt ggaggcattg acaagcgtgt 180
gatcgagagg ttcgagaagg aggctgctga aatgaacaag cggtccttca agtacgcgtg 240
ggtgctcgac aagctcaagg ctgagcgtga gagaggtatc accattgata tcgctctgtg 300
gaagtttgag accaccaagt actactgcac ggtcattgat gccctggac accgtgactt 360
catcaagaac atgatcactg gtacctccca ggtgactgt gctgtcctta tcattgactc 420
caccactggg ggttttgagg ctggtatctc caaggatggc cagaccctg aacatgctct 480
ccttgcgctt acccttgagg tgaagcagat gatttgctgc tgcaacaaga tggatgcaac 540
cactcccaa tactccaagg cacgttatga 570

<210> 7326
<211> 569
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-072-Q1-K6-C1
<400> 7326

natttngaca ttcagnaaca cacctgagcg aacgcactag caacgaccta acaacaatgg 60
ctaccaagna attatccctc tttgcgcttc ttgccctttt tgtgagcgca acaaatgcgt 120
tcattattcc acaatgctca cttgtccta gtgccattat tccacagttc ctccctccag 180
ttacttcaat gggcttcgaa caccagctg tgcaagccta caggctacaa caagcgcttg 240
cggcgagcgt cttacaacaa ccaattgccc aattacaaca acaatccttg gcacatctaa 300
ccatacaaac catcgcaacg caacagcaac aacaatttct accagcactg agccaactag 360
ctgtggtgaa ccctgtcgcc tacttgcaac agcagttgct tgcacccaac ccacttgctc 420
tggcaaacat agttgcatac caacaacaac aacaattgca acagtttcta ccagcgctca 480
gtcaactagc catggtgaac cctgccgcct acctacaaca gcaacaactg atttcatcta 540
gccctctcgc tgtggttaat gcacctaca 569

<210> 7327

<211> 567
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-C10

<400> 7327

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 tgctctttct acatgtgttg ctaacgcgac aattttccct caatgtcac aagctcctat 120
 agcttccctt cttcccccat accttccatc aattatagct tcagtatgtg aaaaccacgc 180
 tcttcaacca tataggcttc aacaagcaat cgcagcaagc aacatacctt tatcgccctt 240
 gttgtttcaa caatcaccag ccctatcttt ggtgcagtca ttggtacaaa ccatcagggc 300
 acaacagctg cagcaactcg tgctacctgt gatcaaccaa gtagctctgg caaacctttc 360
 tccctactct cagcaacaac aatttcttcc attcaaccaa ctgtctacac tgaaccctgc 420
 tgcttatttg cagcaacaac tattaccatt tagccagcta gctactgcct actctcagca 480
 acaacaactt cttccattta accaattggc cgcactgaac cccgctgctt atttgcagca 540
 gcaaatacta ctgccattta gcgagct 567

<210> 7328
 <211> 572
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-C11

<400> 7328

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 tttccctcct tatgctcctt gctctttcta catgtgttgc taacgcgaca attttccctc 120
 aatgtcacac agctcctata gcttcccttc ttccccata ctttccatca attatggggg 180
 gagtatgntg aaaaccacgc tcttcaacca tataggcttc aacaagcaat cgcagcaagc 240
 aacatacctt tatcgccctt gttgtttcaa caatcaccag ccctatcttt ggtgcagtca 300
 ttggtacaaa ccatcagggc acaacagctg cagcaactcg tgctacctgt gatcaaccaa 360
 gtagctctgg caaacctttc tccctactct cagcaacaac aatttcttcc attcaaccaa 420

ctgtctacac tgaaccctgc tgcttatttg cagcaacaac tattaccatt tagccagcta 480
gctactgcct actctcagca acaacaactt ctccattta accaattggc cgcactgaac 540
cccgtgctt atttgagca gcaaatacta ct 572

<210> 7329

<211> 600

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-C12

<400> 7329

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ctccgctgtc acctccctgc cagttatcga catgtctcgc agccgcgacg aggtccgccg 120
cgctatcctc gacgccggca tggagtccgg cttcttctcg gtggtggagc acggcatccc 180
anaggagggtg aggtctggaag gctgnnagtg tgcgaggagt tcttcagct gccggcgggc 240
agcaaggcgt acatgtactc ggaggacagt cagagacca accgcatctt ctccggcaca 300
acctacgaca cgggcggcga caagtactgg cgggactgcc tccgctcgc ctgcccctcg 360
tcttcccggtg tcggcagcgg cacaaggac gactggccgc acacgcccc gcggtgagg 420
gggtgctgtg agcgtttcac cgtctgacg agagggctgg ggggtggagct gctgcggctg 480
ctgtccgagg ccatggggat ccggcccgac tacttcgagg gcgacatcag cgcggcgac 540
gtggtcctca acgtcaacca ctaccctccg tgccccagcc cggagaagac gctcggcctg 600

<210> 7330

<211> 575

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-C2

<400> 7330

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tcgttgccct cgctctcctg gctctcgtg cgagcgccac ctccacgat acaagcggcg 120
gctgcggctg ccagccaccg ccgcccgttc atctaccgcc gccggtgat ctgccacctc 180

cggttcacct gccacctccg gtgcatctcc caccgccggt ccacctgccg ccgccggtcc 240
acctgccacc gccggtccat gtgcgcgcgc cggttcacat gccgccgcca ccatgccact 300
accctactca accgccccgg cctcagcctc atccccagcc acacccatgc ccgtgccaac 360
agccgcatcc aagcccggtgc cagctgcagg gaacctgcgg cgttggcagc accccgatcc 420
tggggcagtg cgtcgagttt ctgaggcatt agtgcagccc gacggcgacg ccctactgct 480
cgcctcagtg ccagtcgttg cggcagcagt gttgccagca gtcaggcag gtggagccgc 540
agcaccggta ccaggcgatc ttcggcttgg tctctc 575

<210> 7331
<211> 366
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-072-Q1-K6-C4
<400> 7331

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tatagacagc tgtgcgaagg ctctccgatg agctaggtgc ctgcaagaca gaccagatcg 120
cgaggactga atcatcgagt gacgacctct cgagcgctga tggcgaagcg ttcctctat 180
ctgggttctg atcatattgc tttccctgtg ttgttttggg aacaggggat gaggaacatg 240
ctcgttcttg atgcaattct agattaggat catgaatata gtgtacaaag ccagcggcgg 300
cggcgggtgca aattagccac cgggttgaat ataaataata tatatatatg atatgttgca 360
tcttct 366

<210> 7332
<211> 582
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-072-Q1-K6-C6
<400> 7332

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ttgcgcttct tgcgcttttt gcgagcgcaa caaatgcgtc cattattcca caatgctcac 120

ttgctcctag ttccattatt ccacagttcc tcccaccagt tacttcaatg gccttcgaac 180
 acccagctgt gcaagcctat aggctacaac aagcgattgc ggcgagcgtc ttacaacaac 240
 caattgccc aattgcaaca caatccttgg cacatctaac aatacaaacc atcgcaacgc 300
 aacagcaaca acagttccta ccagcactga gccacctagc catggtgaac cctgtcgct 360
 acttgcaaca gcagctgctt gcatccaacc cacttgctct agcaaacgta gttgcaaacc 420
 agcaacaaca acaactgcaa cagtttctgc cagcgcttag tcaactagcc atggtgaacc 480
 ctgccgccta cctacaacag caacaactgc tttcatctag cccgctcgct gtggccaatg 540
 cacctacata cctgcaacaa naattgttgc aacagattgt ac 582

<210> 7333
 <211> 500
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-072-Q1-K6-C7
 <400> 7333

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 attcaaccaa ctagctgcat tgaactctgc ttcttatttg caacaacaac aactaccatt 120
 cagccagcta cctgtcgctt acccccagca atttcttcca ttcaaccaac tggcagcatt 180
 gaactctcct gcttatttac agcagcaaca actactacca ttcagccagc tagctggtgt 240
 gagccctgct accttcttga tacaaccaca gttgttgccg ttctaccagc acgctgcgcc 300
 taacgctggc accctcttac aactgcaaca attgctgcca ttcaaccaac ttgctttgac 360
 aaaccagca gcgttctacc aacaacccat cattggtggt gccctctttt agatttctta 420
 tgagttatag ttcaataata aagttttttg tctgatgttt gtggcttccc agaaataaga 480
 aagtacattt ctagattctt 500

<210> 7334
 <211> 570
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-072-Q1-K6-C8
 <400> 7334

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 aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aataaaaaaa aaaaaaata 120
 aaaaaaaaaat aaaatattat ataaaagaaa cctaaaatta aaattaacta gacctatttt 180
 ttacatcttt ttgggggtggg ggggggtttgt ttttcccaa tttattcgct ttgttggact 240
 ttcttttttc ccccgttgtc ttaaaaacca tgggcccctc cccaatcccc tttcccaaaa 300
 atatcccttt tttaatggct tttgggactc tccttatagc ccccctttaa cccctttgtt 360
 tttgggtggtt acccccattht tgaccttttc ttttccatt ttcttagccc ccgttccttt 420
 ggggttttttc cttttttttc tcccctatthc ccccgttttt ccgggttatt ttttaaattg 480
 gggctccctt tttgggttcc gttttaacgc tttacgggtac ttttccccct aaaatttttt 540
 ttaggggtttt ggtttttttta ggggcccttt 570

<210> 7335
 <211> 582
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-C9
 <400> 7335

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 gacagtttgg atgaacacat tggtatccac atggatgggtg taaatatttt ggcagtcaat 120
 tatggctctg ttgatgggtg ccaataccct aggcctatga aattgccatc aaaatggaca 180
 ttcagctctt acactatcct aaagactgct gaacaggcac caagaacccc atcgtttgca 240
 gatcagttaa tagaagctga caatggtctt ggcgaagtaa tgaaaccacc tgagaaatct 300
 ttctgggcta aatattggat gtacatcatt ccgcttgggc ttattgtcat gaatgctgtt 360
 acggcagctg ccaacatacc agaggaagct gcagggcagg gccaacctgg agcacaacgg 420
 gcacctgctg ctgttgctgg gaggaggaga tgatggctgc cttccatacc gtagttaact 480
 atcttcacat tgttttctgt ttttttggg gtattgtatc aatcttacct tgactgcac 540
 atctatggca ctgcatgatg atgccatctt ttgcttgtgt tg 582

<210> 7336
 <211> 597

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-D1

 <400> 7336

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tcctatagct tcctttcttc ccccatacct ctcaccagcg gtgtctttna gtatgtgaaa  180
acccaattct tcaaccctac aggatccaac aggcaatcgc agcaggcatc ttacctttat  240
cacccttggt cctccaacaa ccgtcagccc tattacagca gttaccttgg gtgcatttgt  300
tggcacaaaa catcaaggca caacaactac aacaacttgt gctaggaaac cttgctgact  360
actctcagca acagcagttt cttccattca accaactggc tgcattgaac tctgctgctt  420
atttgcaaca acaactacca ttcagtcagc tagctgctgc ctacccccag caatttcttc  480
cattcaacca actggcagca ttgaactctg ctgcttattt acaacagcaa cagctaccac  540
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<210> 7337
 <211> 585
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-D10

 <400> 7337

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aattatecct ctttgcgctt cttgcccttt ttgtgagcgc aacaaatgcg ttcattattc  120
cacaatgctc acttgctcct agtgccatta ttccacagtt cctccctcca gttacttcaa  180
tgggctgcca gcgccagct gtgcaagcct acaggetaca acaagcgctt gcggcgagcg  240
tettacaaca accaattgcc caattacaac aacaatcctt ggcacatcta accatacaaa  300
ccatcgcaac gcaacagcaa caacaatttc taccagcact gagccaacta gctgtggtga  360
accctgtcgc ctacttgcaa cagcagttgc ttgcatccaa cccacttgct ctggcaaaca  420
tagttgcata ccaacaacaa caacaattgc aacagtttct accagcgctc agtcaactag  480
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ccatggtgaa ccctgccgcc tacctacaac agcaacaact gatttcatct agccctctcg 540
 ctgtggttaa tgcacctaca tacctgcaac aacagttgct gcaac 585

<210> 7338
 <211> 576
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-D11

<400> 7338

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 tatagcttcc cttcttcccc cgtacctctc accagcgggtg tcttcggtat tgtgaaaacc 180
 caaggcgggg accctacagg atccaacagg caatcacagc tggcatctta cctttatcac 240
 ccttggttct ccaacaatca tcagccctat tacatcagtt acctttggtg catttattgg 300
 cacaaaacat cagggcacia caactacaac aacttgtgct agcaaaccctt gctgcctact 360
 ctcagcaaca gcagtttctt ccattcaacc aactagctgc attgaactct gcttcttatt 420
 tgcaacaaca acaactacca ttcagccagc tacctgctgc ctacccccag caatttcttc 480
 cattcaacca actggcagca ttgaactctc ctgcttattt acagcagcaa caactactac 540
 cattcagcca gctagctggt gtgagccctg ctacct 576

<210> 7339
 <211> 581
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-D12

<400> 7339

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 ttatgctect tggcttttct gcaagtgttg ctaccgcaac cattttccca caatgctcac 120
 aagctectat agcttccctt cttcccccat acctctcacc agcgggtgtct tcgatggggg 180
 aaaccccaat tgttcaacct tacaggatcc aacaggcaat cgcaacaggc atcttaccat 240

tatcacccctt gttcctccaa caaccgtcag ccctattaca gcagttacct ttggtccatt 300
 tgggtggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg 360
 catactctca gcaacatcag tttcttccat tcaaccaact ggctgcattg aactctgctg 420
 cttatttgca acaacaatta ccattcagcc agctagttgc tgctacccc cagcaatttc 480
 ttccattcaa ccaactagca gcattgaact ctgctgctta tttacagcag caacaactac 540
 taccattcag ccagctagct gatgtgagcc ctgctgcctt c 581

<210> 7340

<211> 562

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-D4

<400> 7340

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 gcatttaatt tcccttgtgc tgtgcttggg tggaatgctt gcattgcttt ggtctgtgga 120
 aattgtgtcg tctggaaggt gctccaacaa ctccactgat cactattgca atgacaaaaa 180
 tagtggctag tgtattggag aagaacaact tgccaggcgc aattttttaca tctttttgtg 240
 ggggcactga aattggtcaa gcaattgccc ttgacattag gatacctttg gtttcattca 300
 ctggaagtac aagggtgtgt ctaatgggtc agcaacaagt tagtgcaaga ttggttaaata 360
 gccttcttga acttagcggg aacaatgcc aacattgttat ggatgatgta gatattccagc 420
 tagctgtgcg atctgtcttg ttgctgtctg ttggtacagc aggacaacgc tgcaccacat 480
 gtcgtaggct gattcttcat gagaacatat atcaaactt ccttgatcag cttgttgagg 540
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<210> 7341

<211> 477

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-D5

<400> 7341

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gtgttgctcg gtggcgggac ctggctggag cctgaccga tccaccgctg cttcaccgat 120
ggcaaccttg tgaccggcgc agcctggcca ggccaccag agttcgtgtc ccagctcatg 180
gcgttgctcg gcgtcaaggt ttcctttctga agtccaaact gaaagggcaa ggcagaaaga 240
gctctggctc aacctgggga ggggcgtgat agcatagctt tggatttcca gatagaagag 300
aacagactca aaacgacacc ttatagegat cgctgcactt aatccttggt ccatgcgcag 360
caagcctcag gcttattacc cttgtttgtc agcgttgtgt aaaaactgta acccggatgc 420
tgtttcttct tcttcttctt ggttccttct tttttctgag tcgtcctttg tggattc 477

<210> 7342
<211> 581
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-072-Q1-K6-D6
<400> 7342

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tcacaagctc ctatagcttc ctttcttccc cagtacctct caccagcggg gtcttcggta 180
tgtgaaaacc caattcttca accctatagg atccaacagg caatcgcagc tggcatctta 240
cctttatcac ctttgttctt ccaacaatca tcagccctat tacagcagtt acctttgggtg 300
catttattgg cacaaaacat cagggcacia caactacaac aacttgtgct agcaaactt 360
gctgcctact ctgagcaaca acagtttctt ccattcaacc aactagctgc attgaactct 420
gcttcttatt tgcaacaaca acaactacca ttcagccagc tatctgctgc ctacccccag 480
caatttcttc cattcaacca actgacagct ttgaactctc ctgcttattt acagcagcaa 540
caactactac cattcagcca gctagctggg gtgagccctg c 581

<210> 7343
<211> 601
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-072-Q1-K6-D7

<400> 7343

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gtcngagagt acggcaagaa cgcgcgcttg agggagctgg cgaacctcgt gatcgttgcc 120
ggtgaccacg gcaaggagtc caaggacagg gaggagcagg cggagttcaa gaagatgtac 180
agcctcatcg acgagtacaa gttgaagggc catatccggt ggatctcggc gcagatgaac 240
cgcgctccgca acggggagct gtaccgctac atttgcgata cgaagggcgc attcgtgcag 300
cctgcgttct acgaagcgtt cggcctgact gtgatcgagt ccatgacgtg cggctctgcca 360
acgatcgcca cctgccatgg tggccctgct gagatcatcg tggacggggg atctggcctg 420
cacattgacc cttaccacag cgacaaggcc gcggatatcc tggtaactt ctttgacaaa 480
tgcaaggcag atccgagcta ctgggacaag atctcacagg gcggcctgca gagaatctat 540
gagaagtaca cctggaagct ctactccgag aggtgatga cctgaccgg cgtgtacggg 600
t 601

<210> 7344
<211> 567
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-072-Q1-K6-D8

<400> 7344

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cccgtgcttg aaactgacct cccgngaggg cacgctggcg gctgtcttgg cgcggttcct 120
gttcateccg gccttctact tcacggccaa atacggcgac caggggtaca tgatcttctt 180
aacctccttc ctggggctca ccaacgggta cctcacctg tgtgtgctaa tggaggcgcc 240
caaggggtac aagggccccc agcagaacgc tctgggcaac gtgctcgtcg tctgcctcct 300
cggcggcctc ttctccggcg tcgtgctcga ctggctctgg ctattggca agggctggtg 360
agtacggtct tctgcgcgtg ggtctttgag ggggatcgat tagattttag atctctgttt 420
cgacctcttg tttttgctta aaaaaacaga aaacttctgt ctttaggtag ctagttagag 480

aacacggata ctgtaatctg tctaagtttg aaattttctt tcgggtgcaa tcaactccctt 540
 ttgtttccga cttttggatg ttgtata 567

<210> 7345
 <211> 589
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-D9

<400> 7345

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 cnagatgaca cgccgcacgc ctctccgccc cgctccgctc cagattgcgc gcacccaccc 120
 atggcgctcg ccgcttccca ccacggcttc ctgcccttcg ccccgctgc cacgcctacc 180
 ccgtcacggg ggcacctgcy cttccgcgcc gcgcgcctc tgccccgccc cgcccgaga 240
 atttgttgcc aatctatcaa ctcagcta atgtgtgggag cttcttcaac gacatctgat 300
 gaggcagtcc cagtcccagt tgtccagata gatcaggact cagaccgtga tgcgaccatt 360
 gtgcagctaa gttttggaga tcgtttgggg gcgctacttg acacgatgaa agcactcaag 420
 gaccttgccc ttgatgtcac aaaaggaagt gtgacaactg actcagctgt cacacaaaca 480
 aagttccaca tcatgcgatt tgggcgcaag gttgaggacc ctgacatgtt agaaaggatt 540
 cggctaacca tcatcaaaa ctttctccag taccatcctg aatcaagt 589

<210> 7346
 <211> 465
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-072-Q1-K6-E1

<400> 7346

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 aggggggggc ggggtctataa taaaaggatc gctggcttac gtaacgcgtg catgcctatt 120
 tcctagtttt ttttttgagg gctgccttaa atttatttg gggggcccgt tgtttttcca 180
 ccgtcgctgg gggggggagg ggctgtcgtt tacctagaat taattggctt ggcaacccat 240
 cttttttttc cgccggctgg cattccttgt ggagccggcc cgtgatcgat cgtttctacc 300

caccggttgg ccattcctgt ttggaagggtt gggcaccctc cttgtgaggg gttcattccc 360
 gcccgggtgg tgtgtggttg tttaccgcgc gaggttggtt ggttttatta ggcccgcgctc 420
 ctctaccgcc tcgttttctt tggcctttcc tgtccctttt ttttt 465

<210> 7347

<211> 573

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-E10

<400> 7347

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 tgggtctttct gcaagtgttg ctaccgcaac cattttccca caatgctcac aagctcctat 120
 agcttccctt cttcccccat acctctcacc agcgggtgtct tcaatgtgtg aaacgggggg 180
 ggttcaaccc tacaggatcc aacaggcaat cgcaacaggc atcttaccat tatcaccctt 240
 gttcctccaa caaccgtcag ccttattaca gcagttacct ttgggtccatt tgggtggcaca 300
 aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg catactctca 360
 gcaacatcag tttcttccat tcaaccaact ggctgcattg aactctgctg cttatttgca 420
 acaacaatta ccattcagcc agctagtgtc tgctacccc cagcaatttc ttccattcaa 480
 ccaactagca gcattgaact ctgctgctta tttacagcag caacaactac taccattcag 540
 ccagctagct gatgtgagcc ctgctgcctt ctt 573

<210> 7348

<211> 607

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-E12

<400> 7348

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 aattttgctt ccttatgctc cttgggtctt ctgcaagtgc tgctaccgca accattttcc 120
 cacaatgctc acaagctcct atagcttcct ttcttcccc atacctctca ccagcgggtgt 180

cttcagtatg gggggaccga angggtcaac cctacaggat ccaacaggca atcgcagcag 240
gcaccttacc tttatcacco ttgttctcc aacaaccgtc agccctatta cagcagttac 300
ctttggtgca tttgttggca caaaacatca aggcacaaca actacaacaa cttgtgctag 360
gaaaccttgc tgcctactct cagcaacagc agtttcttcc attcaaccaa ctggctgcat 420
tgaactctgc tgcttatttg caacaacaac taccattcag tcagctagct gctgcctacc 480
cccagcaatt tcttccattc aaccaactgg cagcattgaa ctctgctgct tattttacaac 540
agcaacagct accaccattc agccagctag ctgatgtgag ccctgttgcc ttcttgacac 600
aacaaca 607

<210> 7349
<211> 585
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-072-Q1-K6-E3
<400> 7349

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gntgaaaacc caattgttca accctacagg atccaacagg caatcgcaac aggcatttta 120
ccattatcac cttgttccct ccaacaaccg tcagccctat tacagcagtt acctttggtc 180
catttggtgg cacaaaacat cagggcaca caactacaac aacttgtgct agcaaacctt 240
gctgcatact ctacgcaaca tcagtttctt ccattcaacc aactggctgc attgaactct 300
gctgcttatt tgcaacaaca attaccattc agccagctag ttgctgcta cccccagcaa 360
tttcttccat tcaaccaact agcagcattg aactctgctg cttattttaca gcagcaacaa 420
ctactaccat tcagccagct agctgatgtg agccctgctg cttctttgac acaacaacag 480
ttgttgccgt tctacctgca cgctatgect aacgctggca ccctcttaca actgcaacaa 540
ttgctgccat tcaaccaact tgctttgaca aactcaacag tgttt 585

<210> 7350
<211> 488
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-072-Q1-K6-E4

<400> 7350

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accctgctgc ttatttgcag caacaactat taccattcag ccagctagct actgcctact 120
ctcagcaaca acaacttctt ccatttaacc aattggccgc actgaacccc gctgcttatt 180
tgcagcagca aatactacta ccatttagcc agctagctgc agcaaaccgt gcttccttct 240
tgacacagca acagttgctg cctttctacc agcagtttgc ggctaacccc gcaaccctct 300
tacaactaca acaattgttg ccctttgtcc aacttgcttt gacagaccga gcggcctcct 360
accaacaaca catcattggg ggtgccctct tttagattgc ttattagttg taattcaata 420
ataaagtttt ttggatgatg tatgtggcca accagaaata agaagttaca tttccagatt 480
ttaatgtg 488

<210> 7351

<211> 572

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-E5

<400> 7351

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tacacagaca ggaggctgca gctgtgggtca acaacaaagc catgagcagc aacatcatcc 120
acaacaacat catccacaaa aacaacaaca acaaccgcag caccaccacc aacaacaaca 180
acaacagcac caacaacaac atcaatgtga aggccaacaa caacatcacc aacaatcaca 240
aggccatgtg caacaacacg aacagagcca tgagcaacac caaggacaga gccatgagca 300
acaacatcaa caacaattcc aggggtcatga caagcagcaa caaccacaac agcctcagca 360
atatcagcag ggccaggaaa aatacaacag caacaatgtc attgccagga gcagcaacag 420
actacaaggt gcagctataa ctactatagc agtagctcaa atctaaaaaa ttgtcatgaa 480
ttcctaagga agcagtgcag ccctttggta atgccttttc tccaatcacg ttgtatgata 540
ccaagtagct gccaggtatt gcagcaacaa tg 572

<210> 7352
 <211> 579
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-E6

 <400> 7352

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anaagaggat ccagtacaca acagagcaca tggcgaccaa natttttccc tccttatgct   60
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tatagcttcc cttcttcccc cataccttcc atcaatgata gcttcagtat gtgaaaaccc  180
agctcttcag ccctataggc tccaacaagc aatcgcaaca agcaacatac ctttatcacc  240
cttggtgttt caacaatcgc cagccctatc tttggtgcag tcattggtac aaaccatcag  300
ggcacagcag ctgcagcaac tcgtgctacc tgtgatcaac caagtagctc tggcaaacct  360
ttctccctac tctcagcaac aacaatttct tccattcaac caactgtcta cactgaaccc  420
tgctgcttat ttgcagcaac aactattacc attcagccag ctagctactg cctactctca  480
gcaacaacaa cttcttccat ttaaccaatt ggccgcactg aaccccgctg cttatttgca  540
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<210> 7353
 <211> 564
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-E7

 <400> 7353

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gtggtcacgg tggcctccat ggggatgcaa gagaagttct tgaatatatg accagagaag  180
gaatggtgcc tactgcagat gcctacactg gcctggttga ggcccttggc cacgcagcta  240
tgtatgagga agcctatgtt gctttcaaca tgatgactga aatcggtagc ttgccaaactc  300
ttgagacctt caatgctctt gcatttgcac atgctagggg tgggctcttc caggaggctg  360
  
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aggccatctt ttctcggatg agtaacaatg ctggcattca gaaaagcaaa gactcatttg 420
acgccctcat cgaagcatat tgccagggtc cccgattgga tgatgcagtg aaggcgta 480
tgagatgcg taaatccagg ttaaatccag atgagcggtc ccttgagga gtacttaatg 540
cctactgcat agcaggggtc atag 564

<210> 7354

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-K6-E8

<400> 7354

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actctgctgc ttatttacag cagcaacaac tactaccatt cagccagcta gctgatgtga 120
gccctgctgc cttcttgaca caacaacagt tggtgccgtt ctacctgcac gctatgccta 180
acgctggcac cctcttaca ctgcaacaat tgctgccatt caaccaactt gctttgacaa 240
acccaacagt gttctacaa caacccatca ttgggtggtgc cctcttttag attgcttatg 300
agttatagtt caataatgaa gttttttgga tgatgtttgt gggtccag aaataagaaa 360
gtacatttct 370

<210> 7355

<211> 551

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-K6-F1

<400> 7355

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aaaaaaaaa aaaaaaaaaa aaaaaaaag ggggggcttt ttttaaagg tccaagtttt 180
tttccgggg gggggggggg aaaacttttt tttttggggc ccttaaattt attttcgggg 240
ccgggttttt acaactgttg gattgggaaa aacttggggg tccccattt ttttcctttg 300
gagaaaatcc cttttttccc cgggggggtt attcgaaaag ggccctccac gatccctttt 360

tccaaaattt tccccccctt taggggcaat gggccccccc ctttaggggc ccttttagcc 420
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 gttttttcct ttttttccct ttttttccc ccaagttggg gggttttccc ccaaaatttt 540
 ttaaaggggg g 551

<210> 7356
 <211> 582
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-F10

<400> 7356

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 tttgcacagc gcaaagaaga tagaaaagcg atgttgcagg cacagttttc tcagatgcgc 180
 cctgctgtac caatgacacc cactctagcc ccacgccttc caatgtactc tccgatggct 240
 cctcagcaac ttttctatgg acaagcgcca ccagctatga tgccccctca gccaggattt 300
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 ggagcccagg gccagcaacc tgtgccacca tttcagcagc agattcttcc gcgaggacgg 480
 atgtaccgtt acccaactgg tcgcaacatg cctgaagctc cagcgatgcc aggggttgct 540
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<210> 7357
 <211> 588
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-F11

<400> 7357

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caatcacaag gccatgtgca acaacacgaa cagagccatg agcaacacca aggacagagc 180
catgagcggg ggggggagac aacaattcca gggtcatgac aagcagcaac aaccacaaca 240
gcctcagcaa tnnatcagca gggcccagga aaaatcacia cagcaacaat gtcattgcca 300
ggagcagcaa cagactacaa ggtgcagcta taactactat agcagtagct caaatctaaa 360
aaattgtcat gaattcctaa ggcagcagtg cagccctttg gtaatgcctt ttctccaatc 420
acgtttgata caaccaagta gctgccaggt attgcagcaa caatgttgct atgatcttag 480
gcagattgag ccacaatata ttcaccaagc aatctacaac atggttcaat ccataatcca 540
ggaggagcaa caacaacaac catgtgagtt atgtggatct caacaagc 588

<210> 7358
<211> 628
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-072-Q1-K6-F12
<400> 7358

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atnntgcca attaccaacc aacaatncnn cttagcacat nctnaactca tggcgagaac 180
gcatggcgag actgcatgca gcaaccaann gcaactgnagn nccacctnag ncccgtggta 240
gaaaaccctn atnncgctn nacttgnnnc aacaaccann gctgcnnttg catttccaac 300
nnccactntn ngctttgngn ncaaacgtna gncnntgcat acccnnnaca acaanctaac 360
agtnntgcaa ctnagttttn nngccagcgn nctcagtcnn aactagcccc atggtgaaaa 420
ccctatcgnn cctacctaca nnacagcaac aacnnttctt tcaatcnna gcccgctcgc 480
ttatnngggc cccatgcacc tacnnatacc tgcannacaa cagttgnntt gcaacatacc 540
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nnctgctgc nnctacttgn ncaacaac 628

<210> 7359
<211> 454
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-072-Q1-K6-F2

<400> 7359

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catttaacca attggccgca ctgaacccct ctgcttattt ccagcagcaa atactactac 180
catttgGCCa gctagctaca acaagccccg cttccttctt gacacaacaa caagtgtctc 240
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cctttgtcca acttgetttg acaaaccag cagccttcta ccaacaacac atcattggcg 360
gtgccctctt ttagattgct tattagttgt aattcaataa tgaagttttt tggctgatgt 420
atgtggcctc ctagaaataa gaagttatat ttcc 454

<210> 7360

<211> 578

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-K6-F3

<400> 7360

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cccttatcac ggttgcttct ccaacaaccc aactcctat tacagcacat accttggtg 180
gggggggggg gcacataaca tcaggccgac agccgctacg acaacttggg ctgcgaaacc 240
ttgtgcata ctgctcagca acatgcttta tcttgcatc aaccaattgg ctgcattgca 300
ctctgtggt tatttgcaac accaattccc attcagccag ctagtgtgtg cctccccagc 360
agcactttat tccattcaaa cacctaacca acattgaact ctgatgctta tttacagtcc 420
tgagccgcta ctccattct acacaactac ctggtgtgta gccccgctgc cttctggaca 480
caccaacaca ggatgggccc tctacctcca cgctatgctt aaccttggca ccgtcctacc 540
acttccgaca atcgtgcca tgcataccca cttgtttt 578

<210> 7361

<211> 539
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-072-Q1-K6-F4

<400> 7361

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 gcaacaacag ttgttgcaac aacagttgct gcaacaaatt gtaccagctc ttactcagct 180
 agctgtggca aacctgctg cctacttgca acaactactt ccattcaacc aactgactgt 240
 gtcgaactct gctgcgtacc tacaacagcg acaacagtta cttaatccac tagcgggtggc 300
 taaccattg gtcgctgcct tcctacagca gcaacaattg ctgccataca accagttctc 360
 tttgatgaac cctgccttgt cgtggcagca acccatcggt ggtgggtgcc tcttttagat 420
 tacatatgag atgtactcga taatgggtgcc ctcatagcgg catgtgtttc ctaaaaataa 480
 tcaatatatt gattgagatt tatctcgata tacaaaaaag aaaaaaaaaa aaaagaaaa 539

<210> 7362
 <211> 569
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-F5

<400> 7362

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 cctccttatg ctcttggtc tttctgcaag tgctgctacg gcgaccattt tcccacaatg 120
 ctcacaagct cctatagctt cccttcttcc ccgctacctc tcaccagcgg tgtcttcggt 180
 atgtgaaaac ccaattcttc aacctatag gatccaacag gcaatcgcag ctggcatctt 240
 acctttatca cccttggtcc tccaacaatc atcagcccta ttacagcagt tacctttggt 300
 gcattttatt gcacaaaaca tcagggcaca acaactacaa caacttgctg tagcaaacct 360
 tgctgcctac tctcagcaac aacagtttct tcattcaac caactagctg cattgaactc 420
 tgcttcttat ttgcaacaac aacaactacc attcagccag ctatctgctg cctaccccca 480
 gcaatttctt ccattcaacc aactgacagc ttggaactct cctgcttatt tacagcagca 540

acaactacta ccattcagcc agctagctg

569

<210> 7363

<211> 577

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-K6-F6

<400> 7363

catgccacta cccttatcaa ccgccccggc ctcagcctca tccccagcca cacccatgcc 60

cgtgccaaaca gccgcatcca agcccgtgcc agctgcaggg aacctgcggc gttggcagca 120

ccccgatcct gggccagtgc gtcgagttcc tgaggcatca gtgcagcccg acggcgacgc 180

cctactgctc gcctcagtgc cagtcgttgc ggcagcagtg ttgccagcag ctcaggcagg 240

tggagccgca gcaccggtag caggcgatct tcggcttggc cctccagtcc atcctgcagc 300

agcagccgca aagcggccag gtcgcggggc tgttggcggc gcagatagcg cagcaactga 360

cggcgatgtg cggcctgcag cagccgactc catgccccta cgctgctgcc ggcgggtgtcc 420

cccactgaag aactatgtgc ttagtatag ccgctggcta gctagctagt tgagtcattt 480

agcggcgatg attgagtaat aatgtgtcac gcatcaccat ggggtggcagt gtcagtgtga 540

gcaatgacct gaatgaacaa ttgaaatgaa aagaaaa 577

<210> 7364

<211> 580

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-F7

<400> 7364

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tccatggagc catgcaacac agttccatct ggagtttcct gggaggtgag gccagatgta 120

gacgctagcg aggagaagaa tgaaaaacaa gagtcatgta gcaccacagt ggacgaagcg 180

cacgaacaag ggaaaactga gggacagatt gaaattcagg tagcatcatc gatggatatg 240

ataagtgatg aagcttttac agctgacaac caggagcatg gaattggaga atcaaattgtt 300

acttcagtgg aacaagtgac tgaagaagag aaaccagcat ctgaggatga agtaaaagag 360
ccaccattgg tgaactccac ggcactattg tatgatacta cttcatcagg ggattccagt 420
ggactgaaac aatacacagc ttcgaccgat cagaatctct atgctgaatc aaatacaggg 480
tcgtctcctg catccactga ggacattgac ataagtactc tggctgtgga aagtgaagtg 540
gcggtgaga atgatggccc aattaacagt caggtgcatg 580

<210> 7365
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-K6-F8

<400> 7365

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accatgcatg ttgtaacagc acacataaat gagcctgtcg acagaaatgt tgagccgtgc 180
atagcagcag cataaaaaata ctctccattc ttttttaatt tttttatttg tcgttttttg 240
aaacaatagg cgacaaatat tcaagaacgg aggtagtatt gtatcaatat gcaaaccaaa 300
tcatgccagt ttaaaaggag gcactgcttc ttggagacag caaagtctga ttttgagcta 360
actgctgccc aatgtgcagc catgcatgta tgtaacagca caacaataaa ttgagcctgt 420
cgaacag 427

<210> 7366
<211> 574
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-F9

<400> 7366

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gtttgacttg gatcatccgg acaggaggtg gctctggcca caaactggag aggtcttctg 120
gcaggtctc tatcagaggg agcggatcat gcggcagcag gagaaggagc ggcggaagca 180
gcagagcaga gagaagatcc agagaatcaa gaatagagct cggcataaaga cgctgggaaa 240

gtatataaag ccaccgctg atgatacagg tggctcgaac gataacaacat cagtagattt 300
 gtagcatttt gaccatgatg attccttaccg tggggaattt gggttcattat ttgtaacggc 360
 tgtccttggt cctcactgag aacccccgga cggttgtgaa tattttgtca gttttgtcgt 420
 gccctctggt gtctgggtgc tttacaggcg attttgtaac atatctaggc cattgagttg 480
 tgaagctgcc atcttaggtg taaatttggg tttccgtnnn naaaaaaaaa aaaaaaaaaa 540
 aaaaaaaaaa aaaaaaaaaa aaaagggggc ggcc 574

<210> 7367

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-G1

<400> 7367

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 gtttgttgca ttcaaccaac tagctgcatt gaactctgct tcttatttgc aacaacaaca 120
 actaccattc agccagctat ctgctgccta cccccagcaa tttcttccat tcaaccaact 180
 gacagcattg aactctcctg cttattttaca gcagcaacaa ctactaccat tcagccagct 240
 agctgggtgtg agccctgcta ccttnttgac acaaccacag ttgttgccgt tctaccagca 300
 cgctgcgcct aacgctggca ccctttttaca actgcaacaa ttgctgccat tcaaccaact 360
 tgctttgaca aaccagcag nattctacca acaaccatc attgggggtg ccc 413

<210> 7368

<211> 559

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-G10

<400> 7368

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 cttatccctc cttgcgcttc ttgccctttt tgtgagtgca acaaatgcgt tcattattcc 120
 acaatgctca cttgctccga gtgccattat tccacagttc ctccctgggg gggtgcaat 180

gggcttcgaa caccagctg tgcaagccta taggctacaa caagcgcttg cggcgagcgt 240
 cttagaacaa ccaattgccc aattacaaca acaatccttg gcacatctaa ccatacaaac 300
 catcgcaacg cagcagcaac aagcactgag ccacctagcc gtggtgaacc ctatcgctta 360
 cttgcaacaa cagctgcttg catccaaccc acttgctttg gcaaacgtag ctgcatacca 420
 acaacaacaa cagttgcaac agtttctacc agcgctcagt caactagcca tgggtgaaccc 480
 tatcgcttac ctacaacagc aacaacttct ttcattctagc ccgctcgcta tgggcaatgc 540
 acctacatac ctgcaacaa 559

<210> 7369

<211> 542

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-K6-G11

<400> 7369

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 gtgctgctac ggcgaccatt ttcccgaat gtcacaagc tcctatagct tcccttcttc 120
 ccccgctacct ctcaccagcg gtgtgctggg ggtaggggtga gaaacccaat tcttcaaccc 180
 tacaggatcc aacaggcaat cgcagctggc atcttacctt tatcaccctt gttcctccaa 240
 caatcatcag ccctattaca gcagttacct ttggtgcatt tattggcaca aaacatcagg 300
 gcacaacaac tacaacaact tgtgctagca aaccttgctg cctactctca gcaacagcag 360
 tttcttccat tcaaccaact agctgcattg aactctgctt cttatttgca acaacaacaa 420
 ctaccattca gccagctacc tgttgcttac cccaacaat ttcttccatt caaccaactg 480
 gcagcattga actctctgc ttatttacag cagcaacaac tactaccatt cagccagcta 540
 gc 542

<210> 7370

<211> 563

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-G12

<400> 7370

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cttgggtcttt ctgcaagtgt tgctaccgcn accattttcc cacaatgctc acaagctcct 120
atagcttccc ttcttcccc atacctctca ccagegggtgt cttcaatgtg tgaaaccgca 180
gggtgttcaac cctacaggat ccaacaggca atcgcaacag gcattcttacc attatcacc 240
ttgttctctc aacaaccgtc agccctatta cagcagttac ctttgggtcca tttgggtggca 300
caaaacatca gggcacaaca actacaacaa cttgtgctaa caaaccttgc tgcatactct 360
cagcaacatc agtttcttcc attcaaccaa ctgggtgcat tgaactctgc tgcttatttg 420
caacaacaat taccattcag ccagctagtt gctgcctacc ccagcaatt tcttccattc 480
aaccaactag cagcattgaa ctctgctgct tatttacagc agcaacaact actaccattc 540
agccagctag ctgatgtgag ccc 563

<210> 7371

<211> 578

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-G2

<400> 7371

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gcaactcgtg ctacctgtga tcaaccaagt agctctggca aacctttctc cttactatca 120
gcaacaacaa tttcttccat tcaaccaact atctacactg aacctgctg cttatttgca 180
gcaacaacta ttaccattca gccagctagc tactgcctac tctcatcaac aacaacttct 240
tccatttaac caattggccg cactgaacct cgctgcttat ttgcagcagc aaatattact 300
accatttagc cagctagctg cagcaagccg tgcttcttcc ttgacacagc aacagttgct 360
gcctttctac cagcagtttg cggctaacc cgcacacctc ttacaactac aacaattgtt 420
gccctttgtc caacttgctt tgacaaacc agcagcctcc taccaacaac acatcattgg 480
tgggtgcctc ttttagattg cttattagtt gtaattcaat aataaagttt tttggatgat 540
gtatgtggcc aaccagaaat aagaagttac atttccag 578

<210> 7372
 <211> 568
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-G3

<400> 7372

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acagccgtgt ggccaccaac gggaggggccg tggcggtgtg cgcgggtcac gcgggcggtgc 120
ccgacgaggt ggcgcggcac cagcagcacg ctgtggcagc ggggcaatgc tgcgccgcca 180
tggtgcagtc catcgcagcg ccggtggacg cgggtgtggtc gctggtgcgt cgcttcgacc 240
agccgcagcg gtacaagcgc ttcacacagga gctgccacct cgtggacggc gacggcgccg 300
aggtgggggtc cgtgcgggag ctccctgctcg tgtccgggct gcccgccgag agcagccgcg 360
agcggcttga gatccgggac gacgagcggc ggggtgatcag cttccgggtc ctgggcggcg 420
accaccgcct ggccaactac cgctccgtga ccaccgtgca cgaggcggcg ccgtcgcagg 480
acgggcgccc gtcacccatg gtcgtcgagt cctacgtggt ggacgtgccg ccggggaaca 540
ccgtcgagga gacgcgcacg ttcgtggc 568
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<210> 7373
 <211> 538
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-072-Q1-K6-G4

<400> 7373

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gtaatacagc tgttcaaagt tgcatttgtc ttgaaagata tattttcagt ttgaggtagg 120
atattatatg tgcctaactt ttcaatgcaa ggcattgaaat tctatgctta tcattcaaat 180
ggctcgttct gtacaatttt agttaggtat tggagttggt atcaggacga cctgacagtt 240
tacaatttgc aacaatgtat ctattttctca agattgctga tattgatgtt gttacatttt 300
tcctgttttc gttatcattg gtgtggttct acatttttgt tagctattta gcatgatatt 360
tgacttttat tggattgggt gagggaaatc catagaggca acattaaaat gaatctaggg 420
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gatccgagga gtgaaatagg atataaattt ttttatagga aaatagtacc atctagtgtt 480
atccatgttt tacatactaa tttgtgataa tgcatactac atctagtgtt atccgctc 538

<210> 7374

<211> 565

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-G5

<400> 7374

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tgctccttgg tctttetgca agtggtgcta ccgcnaccat tttcccacaa tgctcacaag 120
ctcctatagc ttcccttctt ccccatatcc tctcaccagc ggtgtcttca atgtgtgaaa 180
ccccattgt tcaaccctac aggatccaac aggcaatcgc aacaggcatc ttaccattat 240
cacccttgtt cctccaacaa ccgtcagccc tattacagca gttacctttg gtccatttgg 300
tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcat 360
actctcagca acatcagttt ctccatttca accaactggc tgcattgaac tctgctgctt 420
atttgaaca acaattacca ttcagccagc tagttgctgc ctacccccag caatttcttc 480
cattcaacca actagcagca ttgaactctg ctgcttattt acagcagcaa caactactac 540
cattcagcca gctagctgat gtgag 565

<210> 7375

<211> 565

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-K6-G6

<400> 7375

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cttccttatg ctcttggtc tttctgcaag tgctgtacc gcaaccattt tcccacaatg 120
ctcacaagct cctatagctt cctttcttcc cccatactc tcaccagcgg tgtcttcagt 180
atgtgaaaac ccaattcttc aaccctacag gatccaacag gcaatcgcag caggcatctt 240
acctttatca cccttgttcc tccaacaacc gtcagcccta ttacagcagt taccttttgt 300

gcatttgttg gcacaaaaca tcaaggcaca acaactacaa caacttgtgc taggaaacct 360
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 tgctgcttat ttgcaacaac aactaccatt cagtcagcta gctgctgcct acccccagca 480
 atttcttcca ttcaaccaac tggcagcatt gaactctgct gcttatttac aacagcaaca 540
 gctaccacca ttcagccagc tagct 565

<210> 7376
 <211> 565
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-G8

<400> 7376

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 tctagcagca gccaccgcgc cctcctctc gcagccgcgc tctgctctc cgtgctcgcg 120
 gctgccagcg ccagcgccgc gacctctgc gtgccggggt gggccatccc gcacaaccgg 180
 gtgccgagct gccgctggta cgtgaccagc cggacctgcg gcacggggcc gcgcctcccg 240
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 tgcacggcgc tgagcatcct catggacggc gcgatccgc cgggcccga cgcgcagctg 360
 gagggccgcc tagaggacct gccgggctgc ccgcgggagg tgcagagggg attcgccgcc 420
 accctcgtca cggaggccga gtgcaacctg gccaccatca gcggcgtcgc cgaatgcccc 480
 tggattctcg gcggcggaac gatgccctcc aagtaactgc gaagagcata gtgcatgagg 540
 aatgagcttg tagctagctc atatg 565

<210> 7377
 <211> 583
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-G9

<400> 7377

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acagcctcag caatatcagc aggggcccag gaaaaatcac aacagcaaca atgtcattgc 180
caggagcagc aacagactac aaggtgcagc tataactact atagcagtag ctcaaactca 240
aaaaatgtca tgaattccta aggcagcagt gcagcccttt ggtaatgcct tttctccaat 300
cacgtttgat acaaccaagt agctgccagg tattgcagca acaatgttgt catgatctta 360
ggcagattga gccacaatac attcaccaag caatctacaa catggttcaa tccataatcc 420
aggaggagca acaacaacaa ccatgtgagt tatgtggatc tcaacaagct actcaaagtg 480
cgggtggcaat cttgacagca gcacaatacc taccatcaat gtgcggcttg taccactcat 540
actacaaaaa taatccatgc agcagcaatg acattagtgg tgt 583

<210> 7378
<211> 575
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-072-Q1-K6-H1

<400> 7378

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gctagtctctg catccgcctc cggtcagacc accaacatcg ctgcggccat gatgaaagct 180
tcagcttcgg cttgcaagga tgagtgggtg gtctgtcgtg tgttcaacaa gaccaccggg 240
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aatcagaaca acattccggc catccccatc cccatgccgc tgcagctgcc actgcccgtg 360
cccatgcaga tgcaatttcc catcctgcc aattttgcc tggaccgggt ggccccctac 420
taccccaacc cgaatgccgg cgcggggatg atgccgcta tggcattggc aggtatgggt 480
ggcgccggcg ggctccagat caacggcgct ctgttcggca atccggtgcc cgcgccgctg 540
ccgatgaact tctaccacca ccagatgggc atggg 575

<210> 7379
<211> 582
<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-H10

<400> 7379

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ttccctcaat gtcacaagc tcctatagct tcccttcttc cccaacctt cctcaagggt  180
gggtgggagta tgtgaaaacc cagctcttca gccctatagg ctccaacaag caatcgcgac  240
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gtcattggta caaacatca gggcacagca gctgcagcaa ctctgtgtac ctgtgatcaa  360
ccaagtagct ctggcaaacc tttctcccta ctctcagcaa caacaatttc ttccattcaa  420
ccaactgtct aactgaacc ctgtgtctta ttgacagcaa caactattac cattcagcca  480
gctagctact gcctactctc agcaacaaca attgttgccc ttgttccaac ttgctttgac  540
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<210> 7380
 <211> 589
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-072-Q1-K6-H11

<400> 7380

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ctgtggacat atgcaccaac tactacttga ctagaagctg aaatctaagg taggcacaag  180
acttaggggg gcagatcatt agaccctga gtagtagcac gggggtttgc aaagccacga  240
agttaactac ttagccaatt aaatgatcac actttcctga gagtttacga acagtggggt  300
tgtctgtttt ttctttagtt gtttggctta gtatttttgt ttatgcttca cattagcttc  360
actgttcatg gtttcatgct gattgattat ccaatttagg ttttatgtat cctcacatta  420
gctgggttcg tctcatataa aaagaacttg gttcttgaag atgcattcaa tcaaaatatg  480

```


ctcgggttcat tccttctggc aaatatcctt actggtctgg ttaatctctc agttaacacg 540
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<210> 7381

<211> 588

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-H12

<400> 7381

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 caatgtctgc aagctcctat agcttccctt cttcccccg acctctcacc agcggggggg 180
 ggggggggtg gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcacagctgg 240
 catcttacct ttatcacctt tggtcctcca acaatcatca gccctattac atcagttacc 300
 tttggtgcat ttattggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc 360
 aaaccttgct gctactctc agcaacagca gtttcttcca ttcaaccaac tagctgcatt 420
 gaactctgct tcttatttgc aacaacaaca actaccattc agccagctac ctgctgccta 480
 cccccagcaa tttcttccat tcaaccaact ggcagcattg aactctcctg cttatttaca 540
 gcagcaacaa ctactaccat tcagccagct agctggtgtg agccctgc 588

<210> 7382

<211> 535

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-H2

<400> 7382

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 gaatttgcca gggaatacgg ttgtttgttt cttagaatgc agtgcgaaaa caaaagtaaa 180
 cgtagaacag tgttttgagg aactggttct aaagatctta gacacgcaa gcctcctggc 240

ggattcttcc tcagcagggg tcagcaagaa gaacatcttc aagcagaagg ctccagaagc 300
 tgacgccgcc acaggcagct gctgttaaca tggttttggt cctgtatatt gctatatgtg 360
 gtgaagacaa ttggcagcag ctatataatg atgtatcaag ttaaacttac ctgacaatat 420
 gtagtcttgc ctcccaaccg cagctaagta gcagaggcac ggggtgggtgg catcaatacc 480
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<210> 7383

<211> 590

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-H3

<400> 7383

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 gcgtggtcgc caacatggcg caggcgctgg atggggaacg gctggcgctg gccggggcg 180
 tgggattcac gctgccgacc ctggcgcgagc attactcgcg ctcgtagcac gtgccgctgg 240
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 cccggctggc gcatcgctac gtgctggagg acgtgccgtt cggcctgggtg ttccaggaac 360
 ggctggcgcg cctcttgggc atcgattgcc cgtgctgtc cgctgcatc accctgctgg 420
 aggcggtcta cgccgaatcg ttccgcgacc gcaatgacct gctggccgcg ctgctgcccg 480
 acggcatgtc ggccgaggcg ctgggtggcg cctgcaggag cgcgtgcgcg gcatcgtgaa 540
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<210> 7384

<211> 583

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-H4

<400> 7384

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caattttccc tcaatgctca caagctccta tagcttccct tcttccccca taccttccat 180
caatgatagc ttcagtatgt gaaaaccag ctcttcaacc ctataggctc caacaagcaa 240
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tgcagtcatt ggtacaaacc atcaaggcac agcagctgca gcaactcgtg ctacctgtga 360
tcaaccaagt agctctggca aacctttctc cctactatca gcaacaacaa tttcttccat 420
tcaaccaact atctacactg aacctgctg cttatttgca gcaacaacta ttaccattca 480
gccagctagc tactgcctac tctcatcaac aacaacttct tccatttaac caattggccg 540
cactgaacct cgctgcttat ttgcagcagc aatattact acc 583

<210> 7385
<211> 583
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 7385

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tccttatgct ccttgggtctt tctgcaagtg ctgctacggc gaccattttc ccgcaatgct 120
cgcaagctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg tcttcgggtg 180
ggggaaaacc caattcttca accctacagg atccaacagg caatcgccagc tggcatctta 240
cctttatcac ccttgttctt ccaacaatca tcagccctat tacaacagtt acctttggtg 300
catttattgg cacaaaacat cagggcacia caactacaac aacttgtgct agcaaactt 360
gctgctact ctcagcaaca gcagtttctt ccattcaacc aactagggtc attgaactct 420
gcttcttatt tgcaacaaca acaactacca ttcagccagc tacctgctgc ctacccccag 480
caatttcttc cattcaacca actagcagca ttgaactctc ctgcttattt acagcagcaa 540
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<210> 7386
<211> 583
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-072-Q1-K6-H6

<400> 7386

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tattccacaa tgctcacttg ctccctagtgc cattattcca cagttcctcc caccagttac 180
ttcaatgggc ttggaacacc tagctgtgca agccaacatg caacaacaag cgcttgcggc 240
gagcgtctta caacaaccaa ttgccaatt gcaacaacaa tccttgccac atctaacaat 300
acaagccatc acaacgcaac agcaacaaca gttcctacca gactgagcc acctagccat 360
ggggaaccct gccgcctact tgcaagagca gctgcttgca tccaaccac ttgctctggc 420
gaacgtagtt gcaaaccagc aacaacaaca gctacaacag tttctgccaa cgctcagtca 480
actagccatg gtgaaccctg ccgcctacgt acaacaacaa caactgcttt catctagccc 540
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<210> 7387

<211> 678

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-H7

<400> 7387

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aaaaaaaaa aaaaaaaaaa aagaaaaaaa aaaaaaaaaa anagaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaannaa aaaaggggga aaaggganag agggnaaaaa 180
aanaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aanaaaaaaa aaaaaaaaaa 240
aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa naaaaaaaaa 300
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaana aaaaaaaaaa aaaaaaagaa 360
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa agaaaaaaa aaaaaaaaag aaaaaaaaaa 420
aaaaaaaaa aagaaaaaga gaaaagaaaa aaaagaaaga agaaaaaaga agaaaaaaa 480
aagagaaaag aagaaaaaaa aaaaaaaaaa aaaaaaaaaa aanggaagaa agaaaaaana 540

aagaaaaaaaa aaaaaagaag aaagaaaana aaaaaanaaa gaaaagaaag agaggaagga 600
 aaaaagaaaa agaaaaaaaa aagaaaaaaaa aagaagaaga cgggagaaaa aaaagcgcac 660
 cccccccccc cccccccc 678

<210> 7388

<211> 587

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-K6-H8

<400> 7388

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 aaccatgaag ctggtgcttg tggttcttgc tttcattgct ttagtatcaa gtgtttcttg 120
 tacacagaca ggaggctgca gctgtggtca acaacaagc catgagcagc aacatcatgc 180
 ggagggagca tcatccaaa aaacaacaac atcaaccacc accacaacat caccagcagc 240
 agcaacacca acaacaaca gttcacatgc aaccacaaa acatcagcaa caacaagaag 300
 ttcatgttca acaacaaca caacaaccgc agcaccaaca acaacaaca caacaacagc 360
 accaacaaca acatcaatgt gaaggccaac aacaacatca ccaacaatca caaggccatg 420
 tgcaacaaca cgaacagagc catgagcaac accaaggaca gagccatgag caacaacatc 480
 aacaacaatt ccagggtcat gacaagcagc aacaaccaca acagcctcag caatatcagc 540
 agggccagga aaaatcaca cagcaacaat gtcattgccg ggagcag 587

<210> 7389

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-A1

<400> 7389

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 tgtcggctaa aaactgtagg aaacagcact tgtagatgat aaaaaagcc aaaacttgcg 120
 gaagtttgac aaaaacaccc ctttagtact tcgaagaggc tgaaacccat ttactgggtgc 180

ggctcctatt aaggctccgg agtcttatct tcttccttgg gagcaggtgc aaggccagag 240
 tccccaaaat aaaccgggga ggtaacagca aatttgtttg ggaccttgag aaactccttg 300
 atcttgccag cacgtgggta tgagtaggct gttttgacgg caaataaaaag cacatttttg 360
 ttcccattgg tgaacatgtg gggcacaact gcatgggttg ggaacgagct ccccggttac 420
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<210> 7390

<211> 482

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-A10

<400> 7390

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 gaaaacaaag aaaacccac acgacaaatg tacacgcggt tcatcgagac gacgacgta 180
 caaagaataa caaattaatg tccatgcatg ccaagtgttt gtctgctttt acttaataac 240
 ttttcactcc gtgcggctac gcttaagtat cacggcaact taatttaatt taccagcagc 300
 aagcaagcaa gcaagcaagg gagcgaggag ggagagcttt gcatgctcga tccgtcaaca 360
 ggatcacttc tctcagcag cagctgctgc ttctgctggc ggcgcggct cttcggcagc 420
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<210> 7391

<211> 523

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-A11

<400> 7391

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 ctgcctcggc aaggacagga ttcatcaaag agaactggtt gtatggcagc aattgttgct 180

gctgtaggaa ggcggcgacc aatggggttag ccactaccaa tggattaagt aactgttgtc 240
gctgtttag gtaccagca aagtccgaca gagtcagttg gttgaatgga agcagctgtt 300
gcaagtaggc aacaggggtt gccacagcta gttgagtcag agctgggtaca atctgttgca 360
acaattgttg ttgcaggtat gtaggtgcat tgcccacagc gagcgggcta aatgaaaaca 420
gttgttgttg ttgtacgtag gcggcagggg tcaccatggc tagttgactg agcgttggca 480
aaaactgttg taactgttgt tgttgctggg ttgcaactac ctt 523

<210> 7392

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-A12

<400> 7392

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cagccggcac atcatcgga accccgcggc gtactcccgg gccttcgt 108

<210> 7393

<211> 519

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-A2

<400> 7393

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tggtgggttt gtcaaagcaa gttggttgaa tggcagcaat tggtgcagtt gtaagagggt 180
gccagcgta ggcgcagcgt gcaggtagaa cggaacaac tggtgttggt tcaagaaggc 240
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gttgaatgga agaaactgct gttgctgaga gtaggcaaca aggtttccta gcacaagttg 480
ttgtaattgt tgtgccttga tgttttgtgc caacaaatg 519

<210> 7394
 <211> 547
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-A4

<400> 7394

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ctgttgggtt tgtcaaagca agttggttga atggcagcaa ttgttgcaat tgtaagaggg 180
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caggagagtt caaagctgtc agttggttga atggaagaaa ttgctggggg taggcagcag 360
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gttggttgaa tggaagaaac tggtgttgtc gagagtaggc agcaaggttt gctagcacia 480
gttggtttag ttgtgttgcc ctgatgtttt gtgccaataa aagcaccaaa agtaactgct 540
gtaatag 547

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<210> 7395
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-A5

<400> 7395

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gatttacata ccacccgaat ttgttaaccg gtcgattggg taccaccacc atctccacat 180
gggttaactt tatctgagtt tcatttgggt gcctttttgt aaagagaccc cgaccaaacc 240
atcttacggg cattcattta catttggggg tacctcccaa aatgcaaag ccttccaagg 300
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<210> 7396

<211> 554

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-A6

<400> 7396

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aggaggctgc tgggtttgtc aaagcaagtt ggacaaaggg caacaattgt tgtagttgta 180
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tcagtgtaga cagttggttg aatggaagaa attgttggtg ctgagagtag ggagaaaggt 480
ttgccagagc tacttggttg atcacaggta gcacgagttg ctgcagctgt tgtgccctga 540
tggtttgtac caat 554

<210> 7397

<211> 512

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-A7

<400> 7397

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<210> 7398

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-A8

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<210> 7399

<211> 544

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-B1

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gccagagcta cttgggctga tcaactgtag cactgagttgc tgcaactgtt ctgcccctga 540
ggtt 544

<210> 7400

<211> 562

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-B10

<400> 7400

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<210> 7401

<211> 551

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-B2

<400> 7401

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<210> 7402

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-B4

<400> 7402

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agaaaaggcc ggggggaggg acaggggggg agagggagcg 160

<210> 7403

<211> 544

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-B5

<400> 7403

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acagcacata gtttcttcag tgggggacac cgccggcagc agcgtagggg catggagtcg 180
gctgctgcag gccgcacatc gccgtcagtt gctgcgctat ctgcgccgcc aacagccccg 240
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cgacgcactg gccagagatc ggggtgctgc caacgccgca ggttccctgc agctggcacg 480
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<210> 7404

<211> 516

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-B7

<400> 7404

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taactgatca tcatcgatcat tcataactct gatgacttct acaacttagg aagcttacga 120

atctttctct agttttctat gtgttctgtt gatatctcag tgcaactttt ctacagcact 180

cacctatacg acaatcttgc ggcatcttga agttaacaâââ tcttgctcga gtttccaatg 240

tgggtctataa cttgttttgt gcaacttggg ttacagggtta ggagccagcc cttcagatct 300

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gcgattgagg agaatgggtt tggcatacaa caggcgcgcg cgcacacacc attggagcct 420

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<211> 515

<212> DNA

<213> Zea mays

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<400> 7405

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agtggtagaa gccgcacatt gatggtaggt attgtgctgc tgtcaagatt gccaccgcac 180

tttgagtagc ttgttgagat ccacataact cacatgggtg ttgttggtgc tctcctgga 240

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gatcatgaca acattgttgc tgcaatacct gccagctact tggttgtatc aaacgtgatt 360

ggagaaaagg cattaccaaa gggctgcact gctgccttag gaattcatga caatttttta 420

gatttgagct actgctatag tagttatagc tgcaccttta agtctggtgc tgctcctggc 480
aataacatag gtgctgttgg gatttttctt ggccc 515

<210> 7406

<211> 544

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-B9

<400> 7406

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accacaaaca aaacttggaa tgatgaaaac taggtattgc taaagcaggc gcaggatcgc 180
atcatttctt ctgggcagca gccttgggtca ccttggcgcc ggttgggtcc ttcttctcca 240
cactcttgat aactccaaca gcaaccgtct gcctcatgtc acggacagca aacctaccaa 300
ggggaggata cgctgagaat gtctccacca ccatgggctt ggtgggtatc atcttcacca 360
taccagcatc accgttcttc aggaactttg gctccttctc aagctccttg ccagagcgcc 420
tgtcgatctt ggtaatgagc tcagcaaact tgacagcgat gtgggagggtg tggcagtcca 480
gcacaggggc atagccgttg ccaatctgcc cagggtggtt catgatgatg acctgggagg 540
tgaa 544

<210> 7407

<211> 541

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-C1

<400> 7407

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ctgccacaac aaggcagggt tcatcaaaga gaactgggtg tatggcagca attgttgctg 180
ctgtaggaag gcagcgacca atgggttagc caccgctagt ggattaagta actgttgctg 240
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caagtaggca gcagggtttg ccacagctag ctgagtcaga gctggtacaa tctgttgacag 360
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 ttgttgctgt tgtaggtagg cggcagggtt caccatggct agttgactga gcgctggtag 480
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 g 541

<210> 7408

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-C10

<400> 7408

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 taggaggctg ctgggtttgt caaagcaagt tggacaaagg gcaacaattg ttgtagtgtt 180
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 aaaaaggaag caccacttgc tgcagctagc tcgctaaatg gcagtagtat ttgctgtctg 300
 aaataaacag cgggggttcag tgcggccaat tgggttaaag gaagaagttg ttgttgctga 360
 gagtaggcag taactagctg gctaaatggt aatagttgtt gctgcaaaaa agccgcaggg 420
 ttcagtgtag acaggtggtt gaatgggaaa aa 452

<210> 7409

<211> 532

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-C11

<400> 7409

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 taataatcaa tctaaaagga gggcaccacc aatgatgtgt tggttgtagg aggctgctgg 180
 gtttgtcaaa gcaagttgga caaagggcaa caattgttgt agttgtaaga ggggtgcggg 240

gtagccgca aactgcttgt agaaaggcag caactgttgc tgtgtcaaga aggaagcacg 300
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gttcagtgcg gccaatgggt taaatggaag aagttgttgc tgctgagagt aggcagtagc 420
tagctggcta aatggtaata gttgttgctg caaataagca gcagggttca gtgtagacag 480
ttgggtgaat ggaagaaatt gttgttgctg agagtaggga gaaaagtttg cc 532

<210> 7410

<211> 555

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-C12

<400> 7410

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tcgtacgttt tattgcttga cataaatatg ctcgtcgtac gttttattaa aggaataaaa 120
tcttgaggga cccctgggtg ccggacgacg tctctggtaa ataaatatgc tcatactctc 180
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ttggtcacca cctcgagttg ctggccgaag ttgacgacca aggcaccggg catgggctcg 480
acctttatcc actctccctt gtaggcgacg tcgagggcat agacggagcc ttggaggagg 540
agggatgatga gggtg 555

<210> 7411

<211> 544

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-C2

<400> 7411

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attattactc aatcatcgcc gctaaatgac tcaactagct agctagccag cggctatact 120

acagcacata gtttcttcag tgggggacac cgccggcagc agcgtagggg catggagtcg 180
gctgctgcag gccgcacatc gccgtcagtt gctgcgctat ctgcgccgcc aacagccccg 240
cgacctggcc gctttgcggc tgctgctgca ggatggactg gaggaccaag ccgaagatcg 300
cctgggtaccg gtgctgcggc tccacctgcc tgagctgctg gcaacactgc tgccgcaacg 360
actggcactg aggcgagcag tagggcgctg ccgtcgggct gcactgatgc ctcagaaact 420
cgacgcactg gcccaggatc ggggtgctgc caacgccgca ggttcctgc agctggcacg 480
ggcttgatg cggctgttgg cacgggcatg ggtgtggctg gggatgaggc tgaggccggg 540
gcgg 544

<210> 7412.
<211> 365
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-072-Q1-N6-C4
<400> 7412

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aacgagcatg ttcctcatcc cctgttccca aaacaacaca ggngaaagca atatgatcag 180
aaccagata gagggaacgc ttcgccatcg acgctcgaga ggtcgtcact cgatgattca 240
gtcctcgca tctggctgt cttgcaggca cctagctcat cggagagcct ttcgcacagc 300
tgtctataca acgtagagtc tccgtgggat ttcctaagct ctacgacata taatgatgga 360
ccgag 365

<210> 7413
<211> 556
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-072-Q1-N6-C6
<400> 7413

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ccaaccaac aaatggatta ttttagggaa aaaaaccccg gctggggggc cccaccccg 180
 gggccatcca aaaggaaaaa aaaaaaagg gccccccaac gagggggggg ggcccccca 240
 ggacgggggtt aataaaaaaa aaccggggggg ggggaagaaa ttgttgcggg gggaggaagg 300
 gagccaccaa gggggggccc ccccccaagg gaaaaaaaaa cggggggccc tggggggggc 360
 ccccaacaaa gtccgacaaa ataagtgggt ggaaggaaaa aaactgttga aagaaggaaa 420
 aagggtgggc cacaccaagc tgggtaaaag cgggcacaac cggggggaaa aaactgggg 480
 gcaggaatga aggggcatgg cccaaaaaaa gggggcaaaa aaaaacacaa ttttgctgtt 540
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<210> 7414

<211> 506

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-C7

<400> 7414

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 ggtagaacgc tgctgggttt gtcaaagcaa gttggttgaa tggcagcaat tgttgagtt 180
 gtaagagggt gccagcgta ggcgcagcgt gctggtagaa cggcaacaac tgtggttgta 240
 tcaagaaggc agcagggctc acaccagcta gctggctgaa tggtagtagt tgttgctgct 300
 gtaaataagc aggagagttc aatgctgcc a gttggttgaa tggaagaaat tgctgggggt 360
 aggcagcagg tagctggctg aatggtagtt gttgttggtg caaataagaa gcagagttca 420
 atgcagctag ttggttgaat ggaagaaact gctgttgctg agagtaggca gcaaggtttg 480
 ctagcacaag ttgtttagt tgccgg 506

<210> 7415

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-C8

<400> 7415

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 taaccgaagt taattggata gggggggcg ggcggcttcc gggcgggaaa ccggggggcc 180
 cgggggcggg aaagaaaagg ccaaaggcg gggggaggcg gggggcgttt taagccgaag 240
 ggggggtgcg cctctccgcc ggggagaagg ggagaagggg aggggggggg accgcctggt 300
 cctgggaggg ggggaggagg cggtcaccgc ggggtgggcc cggcgggggg 350

<210> 7416

<211> 552

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-C9

<400> 7416

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 acaggcttca agcaaagttt cagtgtccaa tggcatgcta gtggccaaaa ttggctacag 120
 atgtatagga accacattgt cttggatagg ctacgtgttt caacacaagc aaaagatggc 180
 atcatcatgc agtgccatag atgatgcagt caaggtaaga ttgatacaat accccaaaaa 240
 aaacagaaaa caatgtgaag atagttaact acggtatgga aggcagccat catctcctcc 300
 tcccagcaac agcagcaggt gcccgttgtg ctccagggtg gccctgccct gcagcttcct 360
 ctggtatgtt ggcagctgcc gtaacagcat tcatgacaat aagaccaagc ggaatgatgt 420
 acatccaata tttagcccag aaagatttct cagggtgggtt cattacttcg ccaagaccat 480
 tgtcagcttc tattaactga tctgcaaacg atggggttct tggtgctgt tcagcagtct 540
 ttaggatagt gt 552

<210> 7417

<211> 554

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-D1

<400> 7417

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 cggttggtggg tttgtcaaag caagttgggt gaatggcagc aattgttgca gttgtaagag 180
 ggtgccagcg ttaggcgcag cgtgcaggta gaacggcaac aactgttggt gtgtcaagaa 240
 ggcaacaggg ctcacatcag ctagctgggt gaatgggtgg agctgttgct gttgtaaata 300
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 ttggttgaat ggaagaaact gctgttgctg agagtaggca gcaaggtttc ctagcacaag 480
 ttgttgtagt tggtgtgcct tgatgttttg tgccaacaaa tgcaccaaag gtaactgggtg 540
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<210> 7418

<211> 487

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-D10

<400> 7418

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 acaaggcagg gttcatcaaa gagaactgggt tgtatggcag caattgttgc tgctgtagga 180
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 ggtacgcagc agagttcgac acagtcagtt ggttgaatgg aagcaactgt tgcaagtagg 300
 cagcaggggt tgccacagct agctgagtca gagctggtac aatctgttgc agcaactgtt 360
 gttgcaggta ttaggtgca ttaaccacag cgagaggggt agatgaaatc agttgttgct 420
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 gcaattg 487

<210> 7419

<211> 567

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-D11

<400> 7419

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gaacgctgct gggtttggca aagcaagttg gttgaatggc agcaattggt gcagttgtaa 180
gaggggtgcc gcgttaggcg cagcgtgctg gtagaacggc aacaactgtg gttgtatcaa 240
gaaggtagca gggctcacac cagctagctg gctgaatggg agtagttggt gctgctgtaa 300
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agctagttgg ttgaatggaa gaaactgctg ttgctgagag taggcagcaa ggtttgctag 480
cacaagttgt tgtagttggt gtgccctgat gttttgtgcc aataaatgca ccaaaggtaa 540
ctgatgtaat agggctgaag attgttg 567

<210> 7420

<211> 537

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-D4

<400> 7420

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tccatacggc atccacgtct gcagaaaaca ccgagatcca cgcgcaacat ttctgcagga 180
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tttttctcca ccaaagtctc caccaatttc agcaccatta gtaggtatgt tcacattcac 360
tataccacaa tcactaccat ggggcccagag ccacttaaaa ataatatctg gcctctttgt 420
aaatatagaa ctgctcaatc cttgaggaac agagttattg atttcaattg cttccttcaa 480
ggctctgaaat ttataacat aaaggacagg accaaagagt tcttctttca caactgg 537

<210> 7421

<211> 501

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-072-Q1-N6-D7
 <400> 7421

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ccaaagttct tggaaaccaa gtacacataa ctccaatata cgactaacia tgcgaattgg  180
ggggaaacag atcgaaatgc aggcgatggg tctccggcct gggcttcttc ttcttctttt  240
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gtaaaacatc tcgatgtagc ggggggtctc ggcctttcc aggttgctca cgtacttcca  360
aaaccgtac accccgggtca gggtcacag cctcttgagg taaaacttcc aggggtactt  420
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<210> 7422
 <211> 538
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-072-Q1-N6-D8
 <400> 7422

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cgggttctct gactagctac ctaaagacag aagttttctg tttttttaag caaaaacaag  180
aggtcgaaac agagatctaa aatctaatac atccccctca aagaccacg cgagaagac  240
cgtactcacc agcccttgcc aatgagccag agccagtcga gcacgacgcc ggagaaaagg  300
ccgccgagga ggcagacgac gagcacgttg cccaaagcgt tctgctcggg gcccttgtag  360
cccttgggag cctccattag cacacacacg gtgaggtacc cgttggtgag cccaggaag  420
gaggttagga agatcatgta cccctggctg ccgtatttgg ccgtgaagta aaaggccggg  480
atgaacagga accgcgcaa gacagccgcc agcgtgccct tccgggaggt cagtttca   538

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<210> 7423
 <211> 187
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-072-Q1-N6-E1

 <400> 7423

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 ttcggcgggg gaccgagggg agccggcccg ccccgcgggc accagccccc caagggggcg 120
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 gcgcagc 187

<210> 7424
 <211> 549
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-072-Q1-N6-E10

 <400> 7424

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 tagaactg ttgggttggt caaagcaagt tgggtgaatg gcagcaattg ttgcagttgt 180
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 gccagttggt tgaatggaag aaactgatgt tgctgagagt atgcagcaag gtttgctagc 480
 acaagttggt gtagttgttg ggccctgatg ttttggtcca ccaaaggac caaaggtaac 540
 tgctgtaat 549

<210> 7425
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-072-Q1-N6-E4

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aaaatttttt ttgggaaaaa caaaaaaaaa gagaaaaaag ggggggcccc cccaaagggg 120
gggggggggg ggggggcccc ggggttgga aagagagggg gaaaaagggg aaaaattggg 180
gatataaaaa aagggggggg gggggcccca caaacgggg agaaaaaggg gaaaaaggg 240
ggatggaaaa aaaaaaaaaa aggggttgcg aaacaccggg gggaaaaagg ggaaaaatat 300
gggggggggaa aaaaaagaag gggggggaag ggg 333

<210> 7426

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-E5

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aaaaggaaaa aaaagaaaaa aaaaaaaaaag agggaaataa gggaggaaaa aaaaaagaa 120
gaggaggggg ggggagagaa aaaaaataag gggggggaag agcaaaaagg gggggggagg 180
ggggaaaggg gtttgggggg ggggggggag gggagggggg gagaaagggg aaaaaatat 240
gaaaggggtg gagaaggcca cccactttaa aggggggggg gagaaaacaa aattggaaaa 300
ggggtagaga ggagggc 317

<210> 7427

<211> 494

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-E6

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aaaaggaggg cccaccaat gatgtgttgt tggtaggagg ccgctcggtc tgtcaaagca 180
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aattggttaa atggaaaaag ttgttgctgc tgaaagtagg caatacctag ctggctgaat 420
ggtaatagtt gttgctgcaa ataaacagca gggttcaatg taaacagttg gttgaatgga 480
aaaaatgttg ttgc 494

<210> 7428

<211> 547

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-E7

<400> 7428

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gctatcatgt ttacacagagt tgagcacttg agctggacgc acaaggatgc catacacagt 180
caacaacatc cataagctcg ttctccctac aacgagctaa aatcctgcct gaaatgcaac 240
tcaagttcag cattgactgt caagccccag ccaaataaat tccaggcaag atgtgaatct 300
gcagtatgta gcacccaccc tggataactg agaccgagac ggagatctga atggacgaac 360
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aactgtagat gcgaagggca gcagctcaca gtgcgagaag ctccgactcc ttttcctccg 480
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tcttgga 547

<210> 7429

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-E8

<400> 7429

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ctgttgggtt tgtcaaagca aggtggttga atggcagcaa ttgttgcagt tgtaaaaggg 180
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cagcagggct cacatcaact agctggctga atggtagtag ttgttgctgc tgtaataag 300
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<210> 7430

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-F1

<400> 7430

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acaaaggccc ccaaagggg gggaaaaaaa aagggggagg aaaaaggga aaaaaggcgg 180
agcggggaaa aaaagagaaa cccaaaaaaa aaagaaaaaa aaaaaagcg ggaaaaaaa 240
agggaaaaac gggggggccc aaagggggga gaaaaaaaaa aaaagggggg gggggagaaa 300
ggccgggtag aagggaaaaa aacgggggg 329

<210> 7431

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-F10

<400> 7431

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taagtccct cgttcattca attgggtaag aaaacttcca actaggggga aaaaaagaca 120
gttattaaaa acaacgcacc cccccaccc ccccccgaa aatagtgtc aaacttgcaa 180
ataagttttt tgccttaacg ggaggtcacc gtagggcgca aataaaacct aacatccagt 240
atggaaacaa cattcacaag tccaaccatt gtattgaagg aacaatactg tcttgtgcca 300
aacaaccttt ggaaacaccc cactgagtt ggaaactgaa aatagtttgt tatggccttc 360

aagttaagac ataatgcctt cggtcagtga taatgctggca agctgactgg tcgggaggtt 420
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<210> 7432

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-072-Q1-N6-F11

<400> 7432

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 tttttttttt tttttttttt tttttttttt tttggggggg gggttttttt ttnaaaaaaa 180
 aaaaagggtt ttttttaaaa aaaaaaaaaa aaaaaaaaaa agaggggggg gttttttgtc 240
 aaaaccccg c ggggggggaa aaaggggggg ggagaaaaaa tttttatgaa aaaaaaaaaa 300
 aaaaaagggg gggggggggg ggggtttttt gggggggggg gggggcccc cccccacaa 360
 aggggggggg ggggggggcg gcaaaaaaac cccccccct ttttggggg gggaaaaaaa 420
 aaaaaaaaaa aaaagagggg gggggggggc ccc 453

<210> 7433

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-F2

<400> 7433

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 ttttttttgg gggggcccat accttagggg gggggggggg ttttgaattc caacaaaaaa 180
 gccatttaaa aaagggggcc gccaatgatt ttttttttga aaaaagggtg tgggtttttc 240
 aaaacaagtt ggacaaagg gacaaactgg tgcattttta aaagggttgg ggggttacct 300
 ccaaactggt gggagaacgg aaacactttt tgttttgtca aaaaagaaag ggggcttggt 360

gtaactagct ggcccaaagg gaggaatddd tgggtggggga aaaaaagaag ggggttcagg 420
gcgccaatt ggttaaaagg gaaaaa 446

<210> 7434
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-F4

<400> 7434

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cccccttttg gggccctttt ctttgggttac caaagaagg gggccccccc ccgggggggg 120
ggggcccccc cggggggggg tctttaaagg aaaccggggt ggtggggcca atttgtggtt 180
tgtgtggggg gggcgcccc cggggggtgc cccccggggg gggttaaaga aacggggggc 240
ggtggggggg ggcccc 257

<210> 7435
<211> 556
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-F5

<400> 7435

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gctgttgggt ttgtcaaagc aagttgggtg aatggcagca attgttgcag ttgtaagagg 180
gtgccagcgt taggcgcagc gtgctggtag aacggcaaca attgtggttg tgtcaagaag 240
gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
gcaggagagt tcaaagctgt cagttgggtg aatggaagaa attgctgggg gtaggcagca 360
gatagctggc tgaatggtag ttgttgttgt tgcaaataag aagcagagtt caatgcagct 420
agttggttga atggaagaaa ctgttgttgc tgagagtagg cagcaagggt tgctagcaca 480
agttgttga gttgttgtgc cctgatgttt tgtgccaata aatgcaccaa aggtaactgc 540
tgtaataggg ctgatg 556

<210> 7436
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-F7

<400> 7436

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caaggaaaca acatgggggt ccattcaaca taaaacccta aaaccttaca gacttatccc 180
ttcaggggac acaggaagca tgcctggatg ggttgggcac cttaccttt gggctttttt 240
tgggtgccag gcttcggttc aacaacttga cttttttact tagggccggg gagacccccca 300
tttgatcggg ggcggaacccc agaagctttt ggagaaactc tttcaacttc tgggtctttt 360
ttggcagcgg ttttttgtcg cttggctttg gatcattaag aactggggaa gcagaaaaaa 420
ccttgt 426

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<210> 7437
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-F8

<400> 7437

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cgggcccaca ggccaaaata atgggggggc gggaacaaac aagcgggggg gcccatgggg 60
caccagttaa caaaaaaaaa aactttgggg gcccaaaaaa gcaggcccc ctttaaaacg 120
ggcaaaattg ggggtggcaaa atgaaacaaa accccccccg ttctaaaaaa ttgggcccct 180
atgggtcaaa aaacccccaa ataaaatatt taaaaaaaag gggagagggt ttttaagcgg 240
ggggtatgcc cgggtaaaaa attttggttc aaaaggccaa aaaaaagggg gggcggaac 300
aaacaacccg gggggcacat ggggcaccaa ttaacaaaaa aaaaaacttt gttgttccaa 360
aaaaaaaagg cccct 376

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<210> 7438
 <211> 494
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3061-072-Q1-N6-G1
 <400> 7438

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 ctgctgggtt tgtcaaagca agttgggtga atggcagcaa ttgttgcaat tgtaagaggg 180
 tgccagcggt aggcgcagcg tgctggtaga acggcaacaa ctgtgggttgt gtcaagaagg 240
 tagcagggct cacaccagct agctggctga atggtagtag ttgttgctgc tgtaaataag 300
 caggagagtt caatgctgtc agttgggtga atggaagaaa ttgctggggg taggcagcag 360
 atagctggct gaatggtagt tggtgtgtgt gcaaataaga agcagagttc aatgcagcta 420
 gttggttgaa tggaagaaac tgctgttgct gagagtaagc agcaaggttt gctagcacia 480
 gttgtttagt ttgt 494

<210> 7439
 <211> 537
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-G10
 <400> 7439

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 accattatcg agtacatctc atatgtaatc taaaaaaggc accaccaacg atgggttgct 120
 gccacgacaa ggggggggtc atcaaagaga actggttgta tggcagcaat tggtgctgct 180
 gtaggaaggc agcgaccaat gggtagcca cgcctagtgg attaagtaac tggtgctgct 240
 gttgtaggta cgcagcagag ttcgacacag tcagttggtt gaatggaagt agttgttgca 300
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 actgttggtt caacaactgt tggtgcaggt atgtaggtgc attgcccata gcgagcgggc 420
 tagatgaaag aagttgttgc tggtgtaggt aggcgatagg gttcaccatg gctagttgac 480
 tgaacgctgg tagaaactgt tgcaactgtt gttggttggt ggtattcagc tacgttt 537

<210> 7440

<211> 541
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-G11

<400> 7440

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gtgggggggg tttttttttt tttttttttt agaaagtact ttcttatttc tgggaagcca 60
caaacatcag acaaaaaact ttattattga actataactc ataagaaact aaaaggggca 120
ccaccaatga tgggttggtg gtagaacact ggggggggtg tcaaagcaag ttggttgaat 180
ggcagcaatt gttgcagttg taagaggggg ccagcggttag gcgcagcgtg ctggtagaac 240
ggcaacaact gtggttggtg caaaaaggta gcaggggtca caccaactag ctggctgaat 300
ggtagtagtt gttgctgctg taaataaaca ggagagttca atgctgccag ttggttgaat 360
ggaaaaaatt gttgggggta ggcaacaggt agctggctga atggtagttg ttgttggtgc 420
aaataagaag cagagttcaa tgcagctagt tgggtgaatg gaagaaactg ctgttgctga 480
aagtaggcag caagggttgc tagcacaagt tgttgtaatt gttgtgccct gatgttttgc 540
g 541
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<210> 7441
 <211> 518
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-G2

<400> 7441

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cacattagaa tctggaaatg taacttttta tttctggttg gccacatata tcatccaaaa 60
aactttatta ttgaattaca actaataagc aatctaaagg gggcaccacc aatgatgtgt 120
tgttggtagg aggctgctgg gtttgctaaa gcaagttgga caaagggcaa caattgttgt 180
agttgtaaga gggttgcggg gttagccgca aactgctggt aaaaaggcag caactgttgc 240
tgtgtcaaaa aggaagcacg gcttgctgca gctagctggc taaatggtag taatatttgc 300
tgctgcaa at aagcagcgag gttcagtgcg gccaatgggt taaatggaaa aagttgttgt 360
tgatgaaagt aggcagtacc tagctggctg aatggtaata gttgttgctg caaataagca 420
gcaggggttca gtgtaaatag ttggttgaat ggaaaaaatt gttgttgctg ataataggga 480
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gaaaggggttg ccagagctac ttggttgatc acaggtag 518

<210> 7442
<211> 55
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-072-Q1-N6-G3

<400> 7442

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<210> 7443
<211> 541
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-072-Q1-N6-G4

<400> 7443

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ctgttatcac aatngaaaga agacaagcgg tcgcttctca atattcgacg tcagagcagc 120

cgaaatctcc aaatcttcca atcatccctc ctgtagatc ctgaagagta tagccctttt 180

caccactca cagcataact ttaactcccc cccccccca ccaatgctat cacctacgta 240

ctatctatgc gccgctcctg cctttcttcg acttggtctt gttttcttgt gtcttctttt 300

tcttctcttc aggtgttgtc cacacgtaat tggaaggaat ggcgaaatggg tcctggatgt 360

cctccacgcg gctgcttggg ccaggtgccg tcgacaagtt ctggaggtag ggcgccttga 420

tccactgaat ccaggaactt gaagaaggct gcactgctgg gctcttgctg ttgtcaggac 480

ttgaggggtg tgtggtgaac tcacttagcg gctgtagctc ttcaaatttt gtgaatgtca 540

c 541

<210> 7444
<211> 518
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-G5

<400> 7444

aagaactaga aagtactttc ttattttctgg gacgccacaa acatcatcca aaaaacttca 60
ttattgaact ataactcata agcaatctaa aagagggcac caccaatgat gggttgttgg 120
tagaactg ttgggtttgt caaagcaagt tggttgaatg gcagcaattg ttgcagttgt 180
aagaggggtgc cagcgttagg catagcgtgc aggtagaacg gcaacaactg ttgttgtgtc 240
aagaaggcag cagggtcac atcagctagc tggctgaatg gtagtagttg ttgctgctgt 300
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gcagcaacta gctggctgaa tggtaattgt tgttgcaa atgcagcaga gttcaatgca 420
gccagttggg tgaatggaag aaactgatgt tgctgagagt atgcagcaag gtttgctagc 480
acaagttgtt gtagttgttg tgccctgat gtttgtgc 518

<210> 7445

<211> 523

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-G8

<400> 7445

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ctcttcgcag ttacttgag ggcacgttc cgccgccgag aatccagggg cattcggcga 180
cgccgctgat ggtggccagg ttgcaactcg cctccgtgac gaggggtggg gcgaatcccc 240
tctgcacctc ccgcgggcag cccggcaggt cctttaggcg gccctccagc tgcgcgtccg 300
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ggatgtccgc cagctcccgg cagcatctcc tcttcagctc cggccacggg aggcgcggcc 420
cgatgccgca ggtccggctg gtcacgtacc agcggcagct cgggagcggg ttgtgcggga 480
tggcccaccc cggcacgcag gaggtcccgg cgctggcgct ggc 523

<210> 7446

<211> 520

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-H1

<400> 7446

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cgaacttcaa tctgcttttt acaaattaca acacaacatc agcacgacca agcagatgta 120
aatccaggta tgggtaccat catgccccgg ttactaaga ccaaacgaca cacacatata 180
ccacacatgc aatgatccaa tgcattgttta tactagcaca tgcattgcaca catatcttac 240
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acagacatca tcgacgagat ctggggggca ttagcctgtt cgtccttttg tgacaccatc 480
gaggacggcc tactttttccg ggctgcaaac gtcaaagccg 520

<210> 7447

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-H10

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tttttttttt ttttgggttt tttttttggg gggggggggg ggttttaaaaa aagagaaatt 180
aatcttttat tttggggggg gcggctacct tttccaaaaa aaattttttt ttgttttcaa 240
cctaaagccc aattaaaaaa agggcccccc aaaaatattt ttttttggaa ggggc 295

<210> 7448

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-H4

<400> 7448

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ggattccacc caaaaagcaa tctaaaaggg ggcccccca cagatttggt gttgggaggg 120
 ggggtgctggg tttttcaaag cgaggtggcc aaagggcaac aattggtgta attgaaaaag 180
 ggggtgggggg ttacccccaa cctgctggta aaaaggcagc aactgttggt gtgtcaaaaa 240
 agaagccccg tttgctgcac ctagctggct aaagggagga aaattttgtt ggtgcaaata 300
 cacagcgggg ttcaaggcgg ccaaattggtt aaaaggaaaa aatttttttt taagaaagaa 360
 ggcaaaaact atccgggtaa aaggaaaaag 390

<210> 7449

<211> 531

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-H5

<400> 7449

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 tgttggtagg aggctgctgg gtttgtcaaa gcaagttgga caaagggcaa caattgttgt 180
 agttgtaaga gggttgcggg gttagccgca aactgcttgt agaaaggcag caactgttgc 240
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 gcaggggttca gtgtagacag ttggttgaat ggaagaaatt gttgttgctg agagtaggga 480
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<210> 7450

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-072-Q1-N6-H8

<400> 7450

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gactcaacta gctagctggc cagcggctat actacagcac atagtttctt cagtggggga 180
 caccgccggc agcagcgtag gggcatggag tgggctgttg caggccgcac agtcgcggca 240
 gttgctgcgc tatttgcgcc gccacaacc ccgaacctg gccgctt 287

<210> 7451

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-A1

<400> 7451

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 ttctaccagc agtttgcgcc taaccccgca accctcttac aactacaaca attggtgccc 180
 tttgtccaac ttgctttgac aaaccagca gctcctacc aacaacacat cattggtggt 240
 gccctctttt agattgctta ttagttgtaa ttcaataata aagttttttg gatgatgtat 300
 gtggccaacc agaaataaga agttacattt ccagattcta aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa aaaaggggcy ngccgctt 387

<210> 7452

<211> 573

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-A10

<400> 7452

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 accaagattt atccctcctt gcgcttcttg cgctttttgc gagcgcaaca aatgcgtcca 120
 ttattccaca atgctcactt gctcctagtt ccattattcc acagttcttc ccagcgggta 180
 cttcaatggc cttcgaacac ccagctgtgc aagcctatag gctacaacaa gcgattgcgg 240
 cgagcgtctt acaacaacca attgcccatt tgcaacaaca atccttggca catctaacaa 300
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tgggtgaaccc tgtcgcttac ttgcaacagc agctgcttgc atccaaccca cttgctctag 420
 caaacgtagt tgcaaaccag caacaacaac aactgcaaca gtttctgcca gcgcttagtc 480
 aactagccat ggtgaaccct gccgcctacc tacaacagca acaactgctt tcatctagcc 540
 cgctcgctgt ggccaatgca cctacatacc tgc 573

<210> 7453

<211> 465

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-A11

<400> 7453

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 tgccattatt ccacagttcc tcccaccagt tacttcaatg ggcttcgagc agggggggggg 180
 gcgagcctac aggtacaac tagcgcttgc ggcgagcgcc ttacaacaac caattgcccc 240
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 ttgccctttg tccaacttgc tttgacaaac ccagcagcct cctaccaaca acacatcatt 360
 ggtggtgccc tcttttagat tgcttattag ttgtaattca ataataaagt tttttggatg 420
 atgtatgtgg ccaaccagaa ataagaagtt acatttccag attct 465

<210> 7454

<211> 579

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-A12

<400> 7454

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 gccagtgagc agctcgccat ggcagcagtg tccaccgcgc cggcgctcga aggccgcac 120
 gcgctcgta cggcggtc cgggggcac ggcgcgagg tgtcttcca ggccgncgg 180
 gggcgcgcg tgctgtggtc aactacgcca ccaaccggc caaggccgag gagctcgtcg 240

cggagctcgc ctgcgcggc ctccgcgccg tggccgtgcg cgcggacgtc tccgatccgg 300
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 tggtcgcctg cgcgggcacg atggacgcca agtaccgccg gctggtcgac actgccgtcg 420
 aggacttcga cgccacgttc gcggtgaaca cgcgcggcaa gttcctgggtg tgccgggagg 480
 ccgcccggcg catccccccc aacagcgggtg ggcgcacgtg gacgttctcg tccacgacgg 540
 ttgccgtgct gccgccgggc tacgcggcgt acgtgcgt 579

<210> 7455

<211> 571

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-A2

<400> 7455

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 ctggctctcg ctgcgagcgc cacctccacg catacaagcg gcggctgcgg ctgccagcca 120
 ccgccgccgg ttcactacc gccgcgggtg catctgccac ctccggttca cctgccacct 180
 ccggtgcacg tcccaccgcc ggtccacctg ccgccgccgg tccacctgcc accgccggtc 240
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 tttctgaggc atcagtgcag cccgacggcg acgccctact gctgcctca gtgccagtcg 480
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<210> 7456

<211> 579

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-K6-A3

<400> 7456

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caagatttag ccctccttgc gcttcttgcc ctttttagtga gcgcaacaaa tgcgttcatt 120
 attccacagt gctcacttgc tcttagtgcc attattccac agttcctccc accagttact 180
 tcaatgggct tcgaacatcc agccgtgcaa gcctacaggc tacaactagc gcttgcgggc 240
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 caaaccattg caacgcaaca acaacaacaa caacagtttc tgccatcact gagccaccta 360
 gccgtgggtga accctgtcac ctacttgcaa cagcagctgc ttgcatccaa cccacttgct 420
 ctggcgaaac tagctgcata ccagcaacaa caacagctgc aacagtttat gccagtgtc 480
 agtcaactag ccatggtgaa ccttgccgtc tacetacaac tactttcatc tagcccgtc 540
 gcggtgggca atgcacctac gtacctacaa caacagttg 579

<210> 7457
 <211> 251
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-073-Q1-K6-A4
 <400> 7457

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 agcgttctac caacaacca tcattgggtg tgccctcttt tagattgctt atgagttata 180
 cttcaataat gaagtttttt ggatgatgtt tgtggcttcc cagaaataag aaagtacatt 240
 tctagattct t 251

<210> 7458
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-073-Q1-K6-A7
 <400> 7458

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gctttgacaa acccaacagc attctaccaa caacccatca ttggtggtgc cctcttttag 360
atttcttatg agttatagtt caataataaa gttttttgtc tgatgtttgt ggcttcccag 420
aaataagaaa gtacatttct ag 442

<210> 7459
<211> 576
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-073-Q1-K6-A8

<400> 7459
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cctcaatact cacaagctcc tatagctgcc cttcttcccc cataccttcc atcaatgacg 180
cgggtcgagt ttgtgaaaac ccagcccttc aaccctacag gctccaacaa gcaatcgcaa 240
caagcaactt acctttatca cccctgttct ttcaacaatc gccagcccta tctttggtgc 300
agtcattggt acaaaccatc agggcacaac agctgcaaca actcgtgcta ccagtgatca 360
gccaagtagc tctggcaaac ctttctccct actctcagca acaacaattt cttccattca 420
accaactgtc taaactgaac cctgctgctt atttacaaca acaacaacta ctaccattca 480
gccagctagc tactgcctac tctcagcagc aacaatttct tccatttaac caattggccg 540
cactgaaccc ctctgcttat ttccagcagc aaatac 576

<210> 7460
<211> 293
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-073-Q1-K6-A9

<400> 7460
atattattaa tttttttttt ntttttttat ttttttattt tttttttttt ttttttactt 60

ttttttttat tttttttttt ctcttttccc ctttttttat ttnttttttt tttttttctt 120
 tttttattta tttctttttt tttttttatt attttatttt ttttattttt tttttctata 180
 tacttttttt tttatatitaa aaatatattt attctncttt ccctttattc acctattttt 240
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<210> 7461

<211> 575

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-B1

<400> 7461

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 gctcacaagc tcctatagct tcctttcttc ccccatacct ctcaccagcg gtgtcttcaa 180
 tgtgtgaaac cccaattggt caaccctaca ggatccaaca ggcaatcgca acaggcatct 240
 taccattatc acccttggtc ctccaacaac cgtcagccct attacagcag ttacctttgg 300
 tccatttggt ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc 360
 ttgctgcata ctctcagcaa catcagtttc ttccattcaa ccaactggct gcattgaact 420
 ctgctgctta tttgcaacaa caattacat tcagccagct agttgctgcc tacccccagc 480
 aattttcttc attcaaccaa ctagcagcat tgaactctgc tgcttattta cagcagcaac 540
 aactactacc attcagccag ctagctgatg tgagc 575

<210> 7462

<211> 578

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-B10

<400> 7462

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tttccctcaa tgctcacaag ctccatatagc ttcctttctt ccccatatac ttccatcaat 180
tatagcttcn agtatgtgaa aaccagctc ttcaaccata taggcttcaa caagcaatcg 240
cagcaagcaa cataccttta tggcccttgt tgtttcaaca atcaccagcc ctatctttgg 300
tgcagtcatt ggtacaaacc atcagggcac aacagctgca gcaactcgtg ctacctgtga 360
tcaaccaagt agctctggca aacctttctc cctactctca gcaacaaca tttcttccat 420
tcaaccaact gtctacactg aaccctgctg cttatttgca gcaacaacta ttaccattta 480
gccagctagc tactgcctac tctcagcaac aacaacttct tccatttaac caattggccg 540
cactgaaccc cgctgcttat ttgcagcagc aaatacta 578

<210> 7463
<211> 580
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-073-Q1-K6-B11

<400> 7463

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atccctcctt gcgcttcttg cgctttttgc gagcgcaaca aatgcgttca ttattccaca 120
atgctcactt gctccaagtt ccattattac acagtctctc ccaccagtta cttcaggggg 180
gtgggaacac ccagctgtgc aagcctatag gctacaaca gcaattgcgg cgagcgtctt 240
acaacaacca atttcccagt tgcaacaaca atccttggca catctaaca tacaaccat 300
cgcaacgcaa cagcaacaac aattcctacc agcactgagc cacctagcca tgggtgaaccc 360
tgccgcctac ttgcaacagc agttgcttgc atcaaacca cttgctctgg caaacgtagt 420
tgcaaaccag ccacaacaac agctgcaaca gtttctgcca gcgctcagtc aactagccat 480
ggtgaaccct gccgcctacc tacaacagca acaactgctt tcatctagcc cgctcgctgt 540
ggccaatgca cctacatacc tgcaacaaca attgttgcac 580

<210> 7464
<211> 522
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-K6-B12

<400> 7464

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aaagaaatgc aagcagatga ggatgttgga aagattgcac tagcagttcc tggggggggg 120
gcgaggtctc ttgaattggt tttacaagat ttaattgacc gtacttatga aattactctt 180
caaagtggag caaagacact gaattccttc cacctgaagc aatgtgtgaa gaggtacagt 240
tcttttgatt tcctaactga agttgtcagc aaggtaccag atcttggtgg cgctgattcc 300
tgtggagatg aaagaggatt acctagaaga agaaagtcaa atggcagtga ccagaaaaat 360
gatgaatcaa gatctagtaa aatggccata agaaatgcaa acatcagccc cagaggacgt 420
gggaggggtc gaggcagagg acgaggtcgg ccaccaacca agagaaagga ggttggttat 480
gtacaatttg aagatgagag cagcatgttt gctgaacaag gt 522

<210> 7465

<211> 577

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-B2

<400> 7465

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ggcgggcgatc ctcttctggg ccgtccactt ccgaggcggc atggcgctct ccaccgaaga 180
ggagagcaag ctccccctct tcaacgttca ccagtggtta atgctgattg gtttggtggc 240
cttgaatggc gaagctcttt tggcttataa aactgtgcc aagaaccaaga aactgaaaaa 300
gctagtgcac cttgccgtgc agttccttgc catgtttctg agtctaattg gtctgtgggc 360
tgtatggaag ttccatgatg aaagaaaaat cgatcattta tatacacttc actcgtgggt 420
gggccttact tgcttcatct tcttcagctt gcagtgggct gctggggttt ggaccttttg 480
gtaccccggt ggatcaagaa gtggccgtgc atttttgctt ccctggcatg tcttctttgg 540
tatattcatc tatgttcttg ctatgccac aagtgtg 577

<210> 7466
 <211> 573
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-K6-B3

<400> 7466

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ctgcagggct tgtacggcgc tggcgccggc ctgacgacga tgatgggcgc cggcgggctg 180
tacccttac gcggatacct gaggcagccg cagtgcagcc cgctggcggc ggcgcctac 240
tacgccgggt gtgggcagcc gagcgccatg ttccagcgc tccggcaaca gtgctgccag 300
cagcagatga ggatgatgga cgtgcagtc gtcgcgcagc agctgcagat gatgatgcag 360
cttgagcgtg ccgctgccgc cagcagcagc ctgtacgagc cagctctgat gcagcagcag 420
cagcagctgc tggcagccca gggctctaac cccatggcca tgatgatggc gcagaacatg 480
ccggccatgg gtggactcta ccagtaccag ctgccagct accgcaccaa cccctgtggc 540
gtctccgctg ccattccgcc ctactactga ttc 573

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<210> 7467
 <211> 336
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-K6-B4

<400> 7467

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ggaaacatta atgccttctt gcaacagcaa caattgctac cattctacc acagaatgtg 180
gcaaacattg ttgccttctt acaacaacaa caattgctac catttagcca acatgctttg 240
acgaatccta ccaccttatt gcaaccgcc accattggtg gtgccatctt ctagattttt 300
tatgatttat actgtaataa taaagttctc atgctg 336

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<210> 7468
<211> 573
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-073-Q1-K6-B5

<400> 7468

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cttgggtcttt ctgcagtgtt gctaccgcaa ccattttccc acaatgctca caagctccta 120
tagcttccct tcttccccca tacctctcac cagcgggtgtc ttcaagtgtg aaaccccaat 180
gttcaaccct acaggatcca acaggcaatc gcaacaggca tcttaccatt atcacccttg 240
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aacatcaggg cacaacaact acaacaactt gtgctagcaa accttgctgc atactctcag 360
caacatcagt ttcttccatt caaccaactg gctgcattga actctgctgc ttatttgcaa 420
caacaattac cattcagcca gctagttgct gcctaccccc agcaatttct tccattcaac 480
caactagcag cattgaactc tgctgcttat ttacagcagc aacaactact accattcagc 540
ccagctagct gagtgcagccc tgctgccttc ttg 573

<210> 7469
<211> 575
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-073-Q1-K6-B6

<400> 7469

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gttgtgccgg gtgggtgggtgc tattgatatg gnaaataagc aagtatctca agcagcatgc 180
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tattccacgc caactttgcg ataatgctgg atttgatgcc actgacgttc tcaataagct 300
gaggcagaaa acatgcatct ggtgaagggtg ctaattatgg tgtagacata aacactggcg 360
gaattgctga ttcctttgca aactttgttt gggaacctgc tgttgtaaag atcaatgcta 420

taaatgctgc aaccgaagct tcctgcctta ttcttagtgt cgatgagaca gtgaaaaacc 480
 caaagtcgga gagcgacaaa ggtgaggctg ctgccggtgc gatggctggt cgcggtcgag 540
 gtgcaatgcg aggacgtggt ggcaggggca tgcgc 575

<210> 7470

<211> 583

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-B7

<400> 7470

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 gatggccatg gaccaaacgg ccatttggtt gccaaagagg tcagagatct tctccctgta 120
 aagttgagtg caaatttagg gaagggtgaa tgcaaagaga tttctactag cgatgtcaag 180
 agtgggacta ctaaaggagt tgcaaccgaa cacagggttg aagatactga tgcttcccct 240
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 ctgacagtgg acctcaaacc tagtatcccg agtgaagcag aacgaattag gcaacaaagt 540
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<210> 7471

<211> 600

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-B9

<400> 7471

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tctgaagtag ggggagaagc gcagatggac ttgctgttta ttttggagaa gaccctgcaa 240
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cttctcaac gaatgccgc ctttgcctggc ctgggcacaa tttcgcaagc atgaacagta 540
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<210> 7472

<211> 567

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-K6-C1

<400> 7472

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gcagcattga actctcctgc ttatttacag cagcaacaac tactaccatt cagccagcta 540
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<210> 7473

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-C11

<400> 7473

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taacaccctt ggctagctgt gcacaaccta cgtaccgtgc atgcatgtaa tgtgggtgtca 420
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<210> 7474

<211> 565

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-K6-C12

<400> 7474

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agtgccatta ttccacagtt cctcccacca gttacttcaa tgggcttggg gggggagctg 180
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aacagctaca acagtttctg ccaacgctca tcaactagcc atggtgaacc ctgccgccta 480
cgtacaacaa caacaactgc tttcatctag cccgctcgct gtgggcaatg cacctacata 540
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<210> 7475

<211> 575

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-073-Q1-K6-C3

<400> 7475

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atgctcactt gctccaagtt ccattattac acagttcctc ccaccagtta cttcaatggg 180
cttcgaacac ccagctgtgc aagcctatag gctacaacaa gcaattgcgg cgagcgtctt 240
acaacaacca atttcccagt tgcaacaaca atccttggca catctaacaa tacaaccat 300
cgcaacgcaa cagcaacaac aattcctacc agcactgagc cacctagcca tggatgaacc 360
tgccgcctac ttgcaacagc agttgcttgc atcaaaccga cttgctctgg caaacgtagt 420
tgcaaaccag ccacaacaac agctgcaaca gtttctgcca gcgctcagtc aactagccat 480
ggtgaaccct gccgcctacc tacaacagca acaactgctt tcacttagcc cgctcgctgt 540
ggccaatgca cctacatacc tgcaacaaca attgt 575

<210> 7476

<211> 579

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-C4

<400> 7476

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agctcctata gcttcccttc tttccccgta cctctcacca gcggtgtctt cggtatgtga 180
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tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg 360
cctactctca gcaacagcag tttcttccat tcaaccaact agctgcattg aactctgctt 420
cttatttgca acaacaacaa ctaccattca gccagctacc tgctgcctac cccagcaat 480
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579

<210> 7477

<211> 575

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-C6

<400> 7477

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tcgtcgtcta gcagcagcca ccgccgcctc atcctcgcag ccgccgtcct gctctccgtg 120

ctcgcgggtg ccagcgcag cgccgggacc tctcgcgtgc cggggtgggc catcccgcac 180

aaccgcgtcc cgagctgccg ctggtacgtg accagccgga cctgcggcat cgggccgcgc 240

ctcccggtggc cggagctgaa gaggagatgc tgccgggagc tggcggacat cccggcgtag 300

tgccggtgca cggcgctgag catcctcatg gacggcgoga tcccgccggg cccggacgcg 360

cagctggagg gccgcctaga ggacctgccg ggctgcccgc gggagggtgca gaggggattc 420

gccgccaccc tcgtcacgga ggccgagtgc aacctggcca ccatcagcgg cgtcgccgaa 480

tgccccctgga ttctcggcgg cggaacgatg ccctccaagt aactgcgaag agcatagtgc 540

atgaggaatg agctttagtc tagctcaata tgtct 575

<210> 7478

<211> 597

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-C7

<400> 7478

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gagcgggaca acgaagtgt caggatactt ggttgcttca agttaaaccc cttcgagcat 120

cttaagttgt cttttgattc atcaccagat gagggtgaaa aagcaatata ggaagttgtc 180

attgctggtc catcctgata aatgcaagca tctcaggca caagaagctt ttgcagctct 240

ggcgaaagca caacagctcc tgcttgatcc acaggaaaga ggctacattc ttgaccaagt 300

tactgctgca aaagaagaat tgagggcaaa gcggaaaaag gagctgaaga aagacagtgc 360
 gtccaagata aaatctcttg tagatgaggg aaaatatgaa gagcagtttg aacgatcgga 420
 tggatttcag cagcaattaa taattaaagt acgtgaaatt ttgaccgaca aagaatggcg 480
 taggagaaaa atgcaaatga ggatatcaga ggaagaagga agacttaaga aggatgagga 540
 ggaaacaaaa nagatgtgga agaggaagag agagcatgaa gagaagtggg aggagac 597

<210> 7479

<211> 573

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-C8

<400> 7479

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 ttcccttctt ccccggtacc tctcaccagc ggtgtcttcg gtatgtgaaa acccaattct 180
 tcaaccctac aggatccaac aggcaatcac agctggcatc ttacctttat cacccttggt 240
 cctccaacaa tcatcagccc tattacatca gttaccttg gtgcatttat tggcacaaaa 300
 catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcct actctcagca 360
 acagcagttt cttccattca accaactagc tgcattgaac tctgcttctt atttgcaaca 420
 acaacaacta ccattcagcc agctacctgc tgctacccc cagcaatttc ttccattcaa 480
 ccaactggca gcattgaact ctctgctta ttacagcag caacaactac taccattcag 540
 ccagctagct ggtgtgagcc ctgctacctt ctt 573

<210> 7480

<211> 577

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-C9

<400> 7480

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tgatcgttgc ccttgtcttc ctggcgctcg ctgcgagcgc cgcctccagt acaagcggcg 120
 gctgtggctg ccagacacca ccgtttcacc taccgcctcc gttctatatg ccgcctccgt 180
 tctatctgcc gccgcagcag cagccgcagc catggcaata cccactcaa ccaccgcagc 240
 taagcccgctg ccagcagttc ggatcctgcg ggcgcggcag cgtcggcagc ccgttcctgg 300
 gccagtgcgt cgagttcctg aggcaccagt gcagcccgcc ggcgacgccc tacggctcgc 360
 cacagtgccg ggcgctgcag cagcagtgtt gccaccagat caggcaggtg gagccgctgc 420
 accggtacca ggcgacatac ggtgtgggtc tgcagtcctt cctgcagcag cagccgcagg 480
 gcgagctcgc ggcgctgatg gcggcccagg tagcgcagca gctgacggcg atgtgcggtc 540
 tgcagctgca gcagccaggt ccctgccctt gcaacgc 577

<210> 7481
 <211> 346
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-K6-D10

<400> 7481

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 tccgagatca agatgggaga cgggtancgn agnnacggtc aggttcttcc actgctacaa 180
 gcgcggagtg gagcgcgtgt tcgttgacca cccactgttc ctggagagggg tttggggaaa 240
 gaccgaggag aagaatctac gggccttgct gcttggaaac gnnactacag ggnacccaac 300
 cagnnctgcg gttcagcctg ctatgccagg cagcactttg aagctc 346

<210> 7482
 <211> 600
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-073-Q1-K6-D11

<400> 7482

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 cccctcctcc atccccggcg cggcggcgcc agcagccggc ctgcagggtt tgcaggtttc 120

acacttctta tcattgatga taagaacaaa gtcaagaagg aaatagatgg ccccttggga 180
 cccccacctc gcagggggga cttaaattcg caccaaagta cctcagaaga aacctgccaa 240
 ggttgtccca aagaaggaac cggttgaaga gagaaaggag gatgctttgg ataaggagtt 300
 attgatgaaa cttaagatgt cgcaaaacaa gtatccctca agaattaagt ccgacgaaaa 360
 gccaaagaagt ggtacacagg ttgcatttgg acaaggaaac tcttattatg caagaaattt 420
 tcccatgccc aaaaaggatt cttcatcagg tggagcttcg aagttaccaa aagaatatgc 480
 agaaccatgg gactatagcc atgattatcc tggtactctc ccactaagga agccctactc 540
 tggaaatcct gaaattctgg atgaggaaga atttggagaa tcttctgcca gcaggacca 600

<210> 7483
 <211> 578
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-K6-D12
 <400> 7483

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 ccttatgctc cttggtcttt ctgcaagtgc tgctaccgca accattttcc cacaatgctc 120
 acaagctect atagcttctt ttcttcccc atacctctca ccagcgggtgt cttcaggggg 180
 ggaggggcca attcttcaac cctacaggat ccaacaggca atcgcagcag gcattcttacc 240
 tttatcacc ttgttctctc aacaaccgtc agccctatta cagcagttac ctttggtgca 300
 tttgttgga caaacatca aggcacaaca actacaacaa cttgtgctag gaaaccttgc 360
 tgctactct cagcaacagc agtttcttcc attcaaccaa ctggctgcat tgaactctgc 420
 tgcttatttg caacaacaac taccattcag tcagctagct gctgctacc cccagcaatt 480
 tcttccattc aaccaactgg cagcattgaa ctctgctgct tatttacaac agcaacagct 540
 accaccattc agccagctag ctgatgtgag ccctgttg 578

<210> 7484
 <211> 588
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-073-Q1-K6-D2

<400> 7484

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ttcctgtgcc acatgtgcaa ccggaggaac gatttctggt gggtcgcatt ggtccaaaag 120
agtataggct atacagggtc attgtcagat atgggttatcg cgatgtgcag aaggatgacc 180
tggagttcga gaaggagcta gtcagcaaca ttgcagagtt catccgcagc agtggggaat 240
atgacaagaa tggcttcgtg gaggacacag ataagccctt gcccttcgag aagctgtcca 300
ccatcagtac cggaatcaat atgttggaag aggatggaga agttgatgca tatgtatccc 360
ctcataagga gatagacca cacaatgcag cacccaagcg aaagaaagcc aggttcatga 420
taccaaagag tgctcagggt gacagtgagg tgcgcgcgga gctgcaggag ctcatggacg 480
ctagggaggc aggcattgcc ttcattcctgg ggcactcgta catgaaggcg aagagcgggt 540
cgagtttcat aaagcggatt gtgataaact tcttctacga gttcttga 588

<210> 7485

<211> 577

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-D3

<400> 7485

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tacaccgtct aaggagcagc agccacctgc tacctcaggt gctgcaatac cacctgttta 120
tccagattgg tctagcttcc aggcataatc cccaatccca ccacatggat tcttcccctc 180
acctgtggca tcaagtccac agggtcattc tttcatgtgg ggagctcaag ctatgattcc 240
accttatgga acaccgccac catatgtcat gtacccccct ggagtatatg cccaccatc 300
tatgcccccg ggtgcacatc catttactcc ttatgccatt acttctccaa atggcaatgc 360
tgatgctact ctggtaatac tgatggcaag ccctctgaag gcaaagataa aagtccaaca 420
aagcgatcca aaggaagttt gggcagcttg aacatgctta ctggaaagaa tcccagtga 480
catggtaagt cctcaggtgc atcgggtaat ggagtcactt ctcaaagtgg cgaaagtggc 540
agtgcagatt caagcgaagg gagtgaagga aattctc 577

<210> 7486
 <211> 592
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-K6-D4

 <400> 7486

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 atccagattg gtctagcttc caggcatatc ccccaatccc accacatgga ttcttcccct 180
 cacctgtggc atcaagtcca cagggtcatc ctttcatgtg gggagctcaa gctatgattc 240
 caccttatgg aacaccgcc aatatgtca tgtaccccc tggagtatat gccacccat 300
 ctatgcccc gggtgacat ccatttactc cttatgccat tacttctcca aatggcaatg 360
 ctgatgctac tctggtaata ctgatggcaa gccctctgaa ggcaaagata aaagtccaac 420
 aaagcgatcc aaaggaagtt tgggcagctt gaacatgctt actggaaaga atcccagtga 480
 acatggtaag tcctcaggtg catcgggtaa tggagtcact tctcaaagtg gcgaaagtgg 540
 cagtgcagct tcaagcgaag ggagtgaagg aaattctcac aatgattcac at 592

<210> 7487
 <211> 595
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-K6-D5

<400> 7487

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 ccactctgct cgcacacaag ttgggagtca ctcaagtgtac catcgctcat gccttggaga 120
 aaaccaaata cccaactcg gacatctact tggacaagtt cgacagccag taccacttct 180
 cttgccagtt cacagctgac cttattgcca tgaaccacac tgatttcac atcaccagca 240
 cattccaaga aatcgcgga agcaaggaca ccgtggggca gtacgagtc cacatcgctg 300
 tcaactcttc tgggctctac cgtgtcgtcc atggcatcga tgttttcgat cccaagttca 360

acattgtctc ccctggagca gacatgagtg ttactaccc gtatacggaa accgacaaga 420
gactcactgc cttccatcct gaaatcgagg agctcatcaa cagcgacgtc gagaactccg 480
agcacaagtt cgtgctgaag gacaagaaga agccgatcat cttctcgatg gcgcgtctcg 540
accgcgtgaa gaacatgaca ggcctggtgg agatgtacgg caagaacgcg cgcct 595

<210> 7488

<211> 553

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-D6

<400> 7488

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aatgctcaca acaatacctt tatccggtga cagccgccgg atttcaacac ccaactctac 180
ggggggggcgt gctacatgag gccatcgtag caagcatctt acggtcatta gcattaacct 240
tccaacaggc atatgccta ttgcaacaac catccttagg gcatctgtat ctccaaagaa 300
tggcgacaca acaactacaa ccactgttgc taccaacaat caatcaagta gttgcagcga 360
accttgctgc ttatctccag caacaacaat ttcttccatt caatcaacta actggggtga 420
accctgctgt actacttgca ggcacaacaa ctactaccat ttaaccaact tgtgcggtag 480
ccctagatgc cttgtttact gccaaccaac aacctatctg ccattccatt ctcccaacct 540
gggcaaaaac att 553

<210> 7489

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-K6-D7

<400> 7489

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gctagctgct gcctaccccc agcaatttct tccattcaac caactggcag cattgaactc 120

tgctgcttat ttacaacagc aacagctacc accattcagc cagctagctg atgtgagccc 180
 tgttgccctc ttgacacaac aacagttggt gccgttctac ctgcacgctg cgcctaacgc 240
 tggcacccctc ttacaactgc aacaattgct gccattcaac caacttgctt tgacaaaccc 300
 aacagcgctc taccaacaac ccatcattgg tgggtgccctc ttttagattg cttatgagtt 360
 atacttcaat aatgaagttt tttggatgat gtttgtggct tcccagaaat aagaaagtac 420
 atttctagat tcttatgtgc ttctagcctc caaagtgggt gatagttatt ttgctct 477

<210> 7490
 <211> 589
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-073-Q1-K6-D8

<400> 7490
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 gtgtgcctgg ctctgtcagc tgccagcgcc tctgcaatgc agatgccctg cccctgcgcg 120
 gggctgcagg gcttgtacgg cgctggcgcc ggcctgacga cgatgatggg cgccggcggg 180
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 tactacgccc ggtgtgggca gccgagcgcc atgttccagc cgctccggca acagtgtctg 300
 cagcagcaga tgaggatgat ggacgtgcag tccgtcgcgc agcagctgca gatgatgat 360
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 cagcagcagc tgctggcagc ccagggtctc aaccccatgg ccatgatgat ggcgcagaac 480
 atgccggcca tgggtggact ctaccagtac cagctgcca gctaccgcac caaccctgt 540
 ggcgtctccg ctgccattcc gccctactac tgattcatga tatttggga 589

<210> 7491
 <211> 578
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-K6-D9

<400> 7491
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acaatgctca cttgctccta gtgccattat tccacagttc ctccctccag ttacttcaat 180
gggcttcgaa caccagctg tgcaagccta caggctacaa caagcgcttg cggcgagcgt 240
cttacaacaa ccaattgccc aattacaaca acaatccttg gcacatctaa ccatacaaac 300
catcgcaacg caacagcaac aacaatttct accagcactg agccaactag ctgtggtgaa 360
ccctgtcgcc tacttgcaac agcagttgct tgcaccaac ccacttgctc tggcaaacad 420
agttgcatac caacaacaac aacaattgca acagtttcta ccagcgctca gtcaactagc 480
catggtgaac cctgccgctt acctacaaca gcaacaactg atttcatcta gccctctcgc 540
tgtggttaat gcacctacat acctgcaaca acagttgc 578

<210> 7492
<211> 583
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-073-Q1-K6-E1
<400> 7492

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acagcgacct catcgatcac cttcaacttt caatcatggc ggacgtcgat gtcgaaccgg 120
agggttgccg cgccgctccc aagaagagga cgttccgcaa gtacagctac cgccgctcgc 180
acctagatgc gtttctcgac atgtccacgg acgacctcgt ccagctcttc cccgctcgcg 240
ccaggagaag gttccagagg ggtctgaaga ggaagcccat ggcaactcgc aagaagctgc 300
gcaaggcgaa aaaggatgct cctgctggtg agaagccaga gccagtcaag acacatctcc 360
gtaacatgat cattgtccct gagatgattg gaagcattgt tggggtctac aacggcaaga 420
cgttcaacca ggttgagatc aagcctgaga tgatcggcca ctaccttgcg gagttctcca 480
tctcctataa gccggtcaag catggcaggc ccggtatngg tgccaccacac tctctcgggt 540
ttattcctct gaaatgagct gttaccgcgc tctgtagtct ccc 583

<210> 7493
<211> 590
<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-K6-E10

<400> 7493

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ccagccaccg ccgcccgttc atctaccgcc gccgggtgcat ctgccacctc cggttcacct 180
gccagcgccg gtgcatctcc caccgccggt ccacctgccg ccgcccgtcc acctgccacc 240
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accgccccgg cctcagcctc atccccagcc acacccatgc ccgtgccaac agccgcctcc 360
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cgtcgagttt ctgaggcatc agtgcagccc gacggcgacg ccctactgct cgcctcagt 480
ccagtcgttg cggcagcagt gttgccagca gctcaggcag gtggagccgc agcaccggta 540
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<210> 7494
 <211> 584
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-K6-E11

<400> 7494

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ataggagttg tgccagccaa aactagcata agtttaacca agttttagt aaatagtgat 180
taacatttat gtatctagct acgtttacaa tngaaaatat acttcacaat tgatttaaaa 240
catatttatt ttatatcata gatgttagta cccttccat cccatattat tattcgttgt 300
aactcctaatt ttatatgtct atattcaaataaaaagataat gaatctagac acatgaaact 360
tatacatcaa gtattgtatg cttttcttaa aaatccaaaa cgaattttta tatgggacag 420
agggagtacc tttttatata attttgatca aacttcaaata ttttgacct ctcaaaaagt 480

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gataattgta ttttttgtgt ggagagagaa cctataataa aataaaatga gttatgaaca 540
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<210> 7495
 <211> 577
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-K6-E2

<400> 7495

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 gccgcaggga ggaggaggag gacagggggg ctactactac ccctgcagcc gggcaggaga 480
 ggataccaa acgcagatgt atccaccgtg tcgtcccggc accaccgggc caaggatcgg 540
 ccgcgtgagg cttacgaagg cccgggagta cgccgcg 577

<210> 7496
 <211> 565
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-K6-E4

<400> 7496

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 aacagatgtc agtaaacaac atgtggtgaa tggttggaact tgaactgctc tagttcagtg 180
 ggcatctgtt gttgcatgct tgggatggat ttaatgttc gttttttttc ttccttgtag 240

tgaagtgtc tgatcggtaa cgatcactgt gtgtgaagtg cttgattgtt atgtgggtatc 300
atgagaatga ataaacataa taatggagct gtttttttat tttttactga agaaaaaaaa 360
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aggggggggg ccctttttaa 480
ggaccaagt ttactacccc gggcttgcaa ggaaaaagtt tttttttggg gcccccaaaa 540
taaaattcct gggccgggtt ttaaa 565

<210> 7497

<211> 579

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-E5

<400> 7497

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gcggctgtgg ctgccagaca ccaccgtttc atctaccgcc tccgttctat atgccgcctc 180
cgttctatct gccgccgcag cagcagccgc agccatggca atacccact caaccaccgc 240
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tgggccagtg cgtcgagttc ctgaggcacc agtgcagccc ggccggcgacg ccctacggct 360
cgccacagtg ccaggcgctg cagcagcagt gctgccacca gatcaggcag gtggagccgc 420
tgcaccggtg ccaggcgaca tacgggtgtg tctgcagtc ctctctgcag cagcagccgc 480
agggcgagct cgcggcgctg atggcgccc aggtagcgca gcagctgacg gcgatgtgcg 540
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<210> 7498

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-K6-E7

<400> 7498

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gcttccgttc taccagcagt ttgtggctaa ccccgcaacc ctcttacaac tgcaacagtt 180
gctgcccttt gtccaacttg ctttgacaaa cccagcagcc ttctaccaac aacacatcat 240
tgggcggtgcc ctcttttaga ttgcttatta gttgtaattc aataatgaag ttttttggct 300
gatgtatgtg gcctcctaga aataagaagt tatatttcc 339

<210> 7499

<211> 568

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-K6-E9

<400> 7499

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agatcagaac gaagagaggg agatgagggg gcaaacgcag acagcttccg cggggggccg 180
gtggcgaggg gacggcgctg cggcggtggg ttgggtgggg gtggccgtgg tctcctgct 240
tggccattta ccgagctgcg cgcgcgcggg gctgctggag tccaaccggg gcctggccta 300
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gcaggtcgcc gccaaacctg cctcccggc tcgcctctc cgcctccact tccatgactg 420
cttcgtcaag ggctgcgacg cgtcgatcct gctggacacc gcgcagagcg agaagacggc 480
ggcgccgaac ctgtcggtgg gcgggtacga ggtgatcgac gcgatcaagg cgcagctgga 540
gagggcgtgc ccgggcgtgg tgctcgtgc 568

<210> 7500

<211> 566

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-K6-F10

<400> 7500

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 cgatgccatg ggtctggaac tggggccagtt gcaccaagta atttctcagg gccaggcaat 480
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 cgacttcact gaagacattc gcgtga 566

<210> 7501
 <211> 592
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-K6-F12

 <400> 7501

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 ccctcaatgc tcacaagctc ctatagcttc cttcttccc ccataccttc catcaattag 180
 gggggggggg tgtgaaaacc cagctcttca accatatagg cttcaacaag caatcgagc 240
 aagcaacata cttttatcgc cttgttgtt tcaacaatca ccagccctat ctttggtgca 300
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 ccaagtagct ctggcaaacc tttctcccta ctctcagcaa caacaatttc ttccattcaa 420
 ccaactgtct aactgaacc ctgctgctta ttgacagcaa caactattac catttagcca 480
 gctagctact gcctactctc agcaacaaca acttcttcca tttaaccaat tggccgcact 540
 gaaccccgct gcttatttgc agcagcaaat actactgcca tttagcgagc ta 592

<210> 7502
 <211> 583
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-073-Q1-K6-F2

<400> 7502

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gacctaccg cagcaggctg gcaccgtccg taagaacggc ttcacgtca tcaagaaccg 180
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caactgatga gactcttgtg gccagatta aggaaggggt cgaaagcggg aaggatcttg 480
ttgtgactgt ccagtctgcg atgggggagg agcagatctg cgcgttgaag gatgttggcc 540
ccaagtaact tccttggett tggagacgga accctactgt atc 583

<210> 7503

<211> 589

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-F3

<400> 7503

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acattcttca gctacttgtt ctgctacaga ttcaatgcag gcaggattca cggcatcaga 120
tcatatggac ctactgattg agcaaattaa gatgctcgct ggggagggtg catttggtac 180
cagttcgctg aaaggctaata cgaacagtcc atagatgata ctgaaggggc aaaggaccaa 240
atagagaatt tagagcgtga aatccagcaa aagagaagac atatgcgagc cttgngaaaa 300
acaaatcatg gaaagtggcg aggcattcagt tgctaatacga tccatgggtg atatgcagca 360
gactattaca aaactaactg ctcaagtgcag tgagaaggct tttgagttag agttaaaagtc 420
agctgataat cgtgttctcc aggagcagct acaacagaag aatgcggaag tcaacgattt 480
acaagaaaaa gtttttcacc ttgagcaaca actctccgca aaagtgggta tatccctga 540

gcaggaaaact gattgtgcac agcaggaggc tattgatttg aaatctaaa

589

<210> 7504

<211> 513

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-F4

<400> 7504

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tggtgggttt gtcaaagcaa gttggttgaa tggcagcaat tggtgcagtt gtaagagggt 180
gccagcggtta ggcgcagcgt gcaggtagaa cggcaacaac tggtgttggt tcaagaaggc 240
aacagggctc acatcagcta gctggctgaa tgggtggtagc tggtgctggt gtaaataagc 300
agcagagttc aatgctgcca gttggttgaa tggaagaaat tgctgggggt aggcagcagc 360
tagctgactg aatggtagtt gttgttgcaa ataagcagca gagttcaatg cagccagttg 420
gttgaatgga agaaactgct gttgctgaga gtaggcagca aggtttccta gcacaagttg 480
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<210> 7505

<211> 586

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-F5

<400> 7505

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ctctatagc ttcccttctt ccccgctacc tctaccaaac ggtgtcttcg gtattgtgaa 180
aacccaattc ttcaacccta caggatccaa caggcaatcg cagctggcat cttaccttta 240
tcacccttgt tctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300
ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360

tactctcagc aacagcagtt ttttccattc aaccaactag ctgcattgaa ctctgcttct 420
tatttgcaac aacaacaact accattcagc cagctatctg ctgcctaccc ccagcaattt 480
cttccattca accaactgac agcattgaac tctcctgctt atttacagca gcaacaacta 540
ctaccattca gccagctagc tgggtgtgagc cctgctacct tcttga 586

<210> 7506

<211> 583

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-F6

<400> 7506

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caagcggcgg ctgcgggtgc cagccaccgc cgccgggttca tctaccgccg ccggtgcacg 180
tgccacctcc ggttcacctg ccacctccgg tgcattctcc accgccgggc cacctgccgc 240
cgccgggtcca cctgccaccg ccggtccatg tgccgcgcgc ggttcattctg ccgccgccac 300
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ccccgatcct gggccagtgc gtcgagtttc tgaggcatca gtgcagcccg acggcgacgc 480
cctactgctc gcctcagtgc cagtcgttgc ggcagcagtg ttgccagcag ctcaggcagg 540
tggagccgca gcaccgtac caggcgatct tcggcttggt cct 583

<210> 7507

<211> 595

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-F7

<400> 7507

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tatctaactc caaaaccatg aagctggtgc ttgtggttct tgctttcatt gcttttagtat 120

caagtgtttc ttgtacacag acaggcggct gcagctgtgg tcaacaacaa agccatgagc 180
 agcagcggga tccacaacaa catcatccac aaaaacaaca acatcaacca ccaccacaac 240
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 aacaacaaga agttcatgtt caacaacaac aacaacaacc gcagcaccaa caacaacaac 360
 aacaacaaca gcaccaacaa caacatcaat gtgaaggcca acaacaacat caccaacaat 420
 cacaaggcca tgtgcaacaa cacgaacaga gccatgagca acaccaagga cagagccatg 480
 agcaacaaca tcaacaacaa ttccagggtc atgacaagca gcaacaacca caacagcctc 540
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<210> 7508

<211> 604

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-K6-F8

<400> 7508

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 agcattaacc ctccaacaac catatgctct attgcaacag ccatccttag tgcattctgta 180
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 tgtggcaaac attgttgctt tcttgagaca acaacatttg ttgccatttt acccacaagt 480
 tgtgggaaac attaatgcct tcttgcaaca gcaacaattg ctaccattct acccacagaa 540
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 ttgtg 604

<210> 7509

<211> 589

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-073-Q1-K6-F9

<400> 7509

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gaccacgacg cagcagtatg gatacggata tggatatgga caccatcacc atcagcatga 180
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cgaagccctg ggcgtcagca tgcacgtcgc cgagaagctg cagagccggc gtgaccagcg 480
aggcgagatc gtccgcgtgg agccggagca cggtttcac cagctgaatc cgtcgcgcgc 540
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<210> 7510

<211> 566

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 7510

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cagctagctg atgtgagccc tgttgccctc ttgacacaac aacagttggt gccgttctac 360
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caacttgctt tgacaaaccc aacagcgttc taccaacaac ccatcattgg tgggtgccctc 480
ttttagattg cttatgagtt atacttcaat aatgaagttt tttggatgat gtttgtggct 540

tcccagaaat aagaaagtac atttct

566

<210> 7511

<211> 578

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-G10

<400> 7511

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ggcgcgcagg ctttggcggg agaagctccc cgcggcaaag ggatgctatt ggtgcaaac 240
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ataatggctc gaaagatagg aatgagtcaa gcagagccca aaactcaaat cctgtacagg 540
atTTTTCTaa aagaaactcc tccaacaac cttctgtt 578

<210> 7512

<211> 520

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-K6-G11

<400> 7512

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gatcaggggg ggggcccagc ataaagggat cttccagccc gtgctgccac cggagaagaa 180
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cggcaggtac caggacctca tcggcaacaa gggctctggag accgtcacca tgggccgcgc 420
 cgaaatgacc agggccgtca acgacctggc gaagaagaag aagatggcga cactggagga 480
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<210> 7513

<211> 570

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-G2

<400> 7513

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 tccttgggtct ttctgcaagt gctgctacgg cgaccatttt cccgcaatgc tcgcaagctc 120
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 ctgagcaaca gcagtttctt ccattcaacc aactagctgc attgaactct gcttcttatt 420
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<210> 7514

<211> 569

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-G3

<400> 7514

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 caagctccta tagcttccct tcttcccccg tacctctcac cagcgggtgtc ttcgggtatgt 180

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 tcttatttgc aacaacaaca actaccattc agccagctac ctgctgcta cccccagcaa 480
 tttcttccat tcaaccaact ggcagcattg aactctctg cttatttaca gcagcaacaa 540
 ctactaccat tcagccagct agctgggtg 569

<210> 7515
 <211> 561
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-K6-G4

 <400> 7515

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 gcctatagga tacaacaagc aattgcggcg agcgtcttac aacaaccaat ttcccagttg 240
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<210> 7516
 <211> 570
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-K6-G5

<400> 7516

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<210> 7517

<211> 576

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-G6

<400> 7517

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gcttattttac agcagcaaca actactacca ttcagc 576

<210> 7518
 <211> 567
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-073-Q1-K6-G7

<400> 7518

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<400> 7519

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ttttccaca atgctcaca gctcctatag cttcctttct tccccatac ctctcaccag 180
cgggtgtctgg agtatgtgaa aacccaattc ttcaacccta caggatccaa caggcaatcg 240
cagcaggcat cttaccttta tcaccttggc tcctccaaca accgtcagcc ctattacagc 300
agttaccttt ggtgcatttg ttggcacaaa acatcaaggc acaacaacta caacaacttg 360
tgctaggaaa cttgctgccc tactctcagc aacagcagtt tcttccattc aaccaactgg 420
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ctgcattgaa ctctgctgct tatttgcaac aacaactacc attcagtcag ctagctgctg 480
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 <211> 578
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 tggtagaaaag catgcctcgt tgcacactcc atatecgtat gtttcctcgt ttgctggtga 240
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 gtgctttccg tagcatccac attcatagag atagaggttc gcattgagtt gatctcttta 360
 tctagtgtcg gtagcattcc cctacagatc ttacctatc taatagagga tagtgtatca 420
 atgtgaccgc cccagattcc ttaaagttaa ttatacataa tagccagaac aatcaaatgt 480
 catggagcac aggagcatgt tctccttgct aatgaattag catctttgat ttaangaaaa 540
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<210> 7521
 <211> 548
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 7521

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catataggct tcaacaagca atcgcagcaa gcaacatacc tttatcgccc ttgttgtttc 240
aacaatcacc agccctatct ttggtgcagt cattggtaca aaccatcagg gcacaacagc 300
tgcagcaact cgtgctacct gtgatcaacc aagtagctct ggcaaacctt tctccctact 360
ctcagcaaca acaatttctt ccattcaacc aactgtctac actgaaccct gctgcttatt 420
tgcagcaaca actattacca tttagccagc tagctactgc ctactctcag caacaacaac 480
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tactgcca 548

<210> 7522
<211> 583
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 7522

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ccactgctac agatttggag agagaatttg gataacagtg gcaagaaagt gccctgttag 180
aggggggggg gcctgaggaa gcaataaaga tgattaaaga ggctctttcc agtaatgaga 240
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tttcaagtct tagtagcctc ttatatgctc agggaaaata cgtctatgtt gatggcgacg 480
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<211> 568
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 7523

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cacaacagct gcagcaactc gtgctacctc tgatcaacca agtagctctg gcgggagggg 180
gggtgcctac tctcagcaac aacaatttct tccattcaac caactgtcta cactgaaccc 240
tgctgcttat ttgcagcaac aactattacc atttagccag ctagctactg cctactctca 300
gcaacaacaa cttcttccat ttaaccaatt ggccgcactg aaccccgctg cttatttgca 360
gcagcaaata ctactacat ttagccagct agctgcagca aaccgtgctt cttcttgac 420
acagcaacag ttgctgcctt tctaccagca gtttgccggt aaccccgcaa ccctcttaca 480
actacaacaa ttgttgccct ttgtccaact tgctttgaca gaccagcgg cctcctacca 540
acaacacnat cattggtggt gccctctt 568

<210> 7524

<211> 569

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-H2

<400> 7524

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ttgctcctag tgccagtatt ccacagttcc tcccaccagt tacttcaatg ggcttcgaac 180
atccagccgt gcaagcctac aggctacaac tagcgcttgc ggcgagcgcc ttacaacaac 240
caattgceca attgcaacaa caatccttgg cacatctaac cctacaaacc attgcaacgc 300
aacaacaaca acaacagttt ctgccatcac tgagccacct agccgtggtg aaccctgtca 360
cctacttgca acagcagctg cttgcatcca acccacttgc tctggcgaac gtagctgcat 420
accagcaaca acaacagctg caacagttta tgccagtgtc cagtcaacta gccatggtga 480
accctgccgt ctacctaaa ctactttcat ctagcccgct cgcggtgggc aatgcaccta 540
cgtacctaca acaacagttg ctgcaacaa 569

<210> 7525
 <211> 567
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-K6-H3

 <400> 7525

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 ctctatagc ttcccttctt ccccggtacc tctcaccagc ggtgtcttcg gtattgtgaa 180
 aacccaattc ttcaacccta caggatccaa caggcaatca cagctggcat cttaccttta 240
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 ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360
 tactctcagc aacagcagtt tcttccattc aaccaactag ctgcattgaa ctctgcttct 420
 tatttgcaac aacaacaact accattcagc cagctacctg ctgcctaccc ccagcaattt 480
 cttccattca accaactggc agcattgaac tctcctgctt atttacagca gcaacaacta 540
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<210> 7526
 <211> 558
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 7526

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 cgtcgacgcy tcgttcttgc cggccgcgcc ccacctccgc cctctcctcc tccaggggat 180
 cggatacgcc acaggctgcy cgatgggtgt gtgggtcttc ggctacggct ccctcatctg 240
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gcttgaaacc gacgacgagg ccataatgctg gggaattgca tattgtgtca aggggtggtcc 420
 agaaaaagag ctaaaagcaa tgcagtactt ggagagaaga gagtgtgagt acgaccagaa 480
 gatataccatt gattttctaca aggaaggaga tcccttgaaa ccagctgtga caggcgtctt 540
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<210> 7527

<211> 577

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-K6-H7

<400> 7527

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 gcggctgcgg ctgccagcca ccgccgccgg ttcattctacc gccgccggtg catctggcag 180
 ctgcgggttca cctgccacct ccggtgcac tcccaccgcc ggtccacctg ccgccgccgg 240
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 tcctggggcca gtgcgtcgag tttctgaggc atcagtgagc cccgacggcg acgccctact 480
 gctcgcttca gtgccagtcg ttgcggcagc agtggttgcca gcagctcagg caggtggagc 540
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<210> 7528

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-K6-H8

<400> 7528

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 cgaccaactc gatcccgccg catggatcgc gccgaccccg cgcggggccg ccttgccgtg 120
 ctctctccc acctccgtgg tgc 143

<210> 7529

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-A1

<400> 7529

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taggaggctg ctgggtttgt caaagcaagt tggacaaagg gcaacaattg ttgtagtgtg 180
aaaagggttg cgggggttagc cgcaaactgc tggtagaaag gcagcaactg ttgctgtgtc 240
aaaaaggaag cacggcttgc tgcagctagc tggctaaatg gtagtaatat ttgctgtgtc 300
aaataaacag cgaggttcag tgcggccaat 330

<210> 7530

<211> 526

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-N6-A10

<400> 7530

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ctgcctcnac aagacagggt tctcaaaga gaaccgggtg tatggcagca attgttgctg 180
ctgtaggaag gcagcgacca atgggttagc cactggcaat ggattaagta actgttgctg 240
ctgttgtagg tacgcaacaa agttcgacat aattagttgg ttgaatggaa gcagctgttg 300
caagtaggca acagggtttg ccacagctag ctgagttaga gctggtacaa tatgttgcaa 360
caattcttgt tgcaggatat taggtgcatt ggccacagcg agcgggctag ataaaaacag 420
ttgttgctgt tgtaggtagg cggnagggtt caccatgggt agttgactaa gcgctggcag 480
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<211> 350
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-073-Q1-N6-A11

<400> 7531

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tttttttttt ttttttttaa aaaataggga ggaggggggg gatattttgg ngggccccaa 180
aaatataaaa aaaaaatttt tttataaaaa aaacaataaa aaaaatataa aaaaggggcc 240
ccacaaaaaa ttttttttgg ggagaggggt tttgggtttt aaaaaaaaag gggaaaaaag 300
ggaaaaaatt ttttgtttta aaaaaggggg ggggggttat agggccaaaa 350

<210> 7532
<211> 52
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-A12

<400> 7532

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<210> 7533
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-A2

<400> 7533

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attgataaaa ttgagtttgg aaaaaaaggg gaggggggaa aaaagagaag gaaaaaatgg 180
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<210> 7534
 <211> 550
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-A3

<400> 7534

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ctgcaaggca gggttcatca aagagaactg gttgtatggc agcaattggt gttgctgctg 180
caggaaggta gcgaccaatg ggtagccac tgccaatgga ttaagtaact gttgtcgctg 240
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taggtagacg gcagggttca ccatggctag ttgactgagc actggcataa actgttgcag 480
ctgttggtgt tgctgggatg cagctacgtt cgccagagca agtggggttg atgcaagcag 540
ctgctgttgc 550
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<210> 7535
 <211> 252
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-A4

<400> 7535

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gtagaacgct gttggggttg tcaaagcaag gtggttgaat ggcagcaatt gttgcagttg 180
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ttttgacaca ac 252
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<210> 7536
 <211> 137
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-A6

<400> 7536

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gcacaaaagt ggagcatggt ctccatggct tcgctcaaag cagcacagta tggtaattaa 120
actgatcaat ttacagc 137

<210> 7537

<211> 486

<212> DNA

<213> Zea mays

<223> unsure at all,n locations

<223> Clone ID: LIB3061-073-Q1-N6-A7

<400> 7537

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ggcaaaaaaa aaaaaaaaaa aatttttggg gggggggggg gggaaaaaa aaaaaggggg 180
ggggccccc aagggggggg gggggaaaaa aggggtgggg gttaaaaaaa aaaagggggg 240
ggaagggaaa aaaatgttga aaaaaaaaaa ggggggcaag gttaagggga gagggttgga 300
aaaaaaaaaa aaaattgggg tggagaaaaa aggganaggg gtaaaaaaaaa aaaaatgggg 360
gaaagagaga agtgtgaggt ggttaaaaaa agaaggggag gggaaaagtg ttagagggga 420
aaaaaaaaaa aaattgtggg gggagggaaa aaaaaggggg gagaaaaggg ggatgtgtgg 480
tggttg 486

<210> 7538

<211> 512

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-A8

<400> 7538

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ctgctggggtt tgtcaaagca agttggacaa agggcagcaa ctggtgcagt tgtaagaggg 180
 ttgcgggggtt agccacaaac tgctggtaga acggaagcaa ttgttggtgt ttcaaaaagg 240
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 cagtagctag ctggctgaat ggtagtagtt gttgttggtg taaataagca gcagggttca 420
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<210> 7539

<211> 543

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-B1

<400> 7539

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 gtgccagcgt taggcatagc gtgcaggtag aacggcaaca actgttggtg tgtcaagaag 240
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 tgggtgaatg gaagaaactg atgttgctga gagtatgcag caaggtttgc tagcacaagt 480
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<210> 7540

<211> 535

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-B10

<400> 7540

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 ggtaggaggc tgctgggttt gtcaaagcaa gttggacaaa gggcaacaat tgtttagtgg 180
 gtaagagggt tgcgggggta gccgcaact gctttagtaa aggcagcaac tgttgcgtgtg 240
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 ggttcaatgt agacagttgg ttgaatggaa aaaattgttg ttgctgagag tagggagaaa 480
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<210> 7541
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-073-Q1-N6-B4
 <400> 7541

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 gcaattgttg ttgttgaag aaggcaacaa tgtttgccac attctgtggg tagaatggta 180
 gcaattgttg ctgttgcaag aaggcattaa tgtttccac aacttgtggg taaaatggca 240
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 gaagctgttg ttgcagtaag aaggcataag ggctccc 337

<210> 7542
 <211> 382
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-073-Q1-N6-B7
 <400> 7542

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 aaaaaatatg gggggggggg gaacaaacaa aatttttaaa atggaataaa aaaaaggag 120

gggaaaactt aagcgcaggg gggggacagg acccccccca accaaaaaaa aagggcacaaa 180
aataaaaaaa gttataataa aaaaaaaagg accccaaaaa aggggggggaa caccggaaaa 240
aaaaacaaaa aaggcccaaa aaaaaatgcc actgggaaaa aaattacaaa aaatccaaaa 300
aaaaagggga ggggtataaa agaaaaaaa aattggggga aaaaaggtc tggaaaaagg 360
ggggaaaaaa atccaacaaa aa 382

<210> 7543

<211> 522

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-C1

<400> 7543

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caattgttgc agttgtaaga gggtgccagc gttagggcga gcgtgctggt agaacggcaa 180
caactgtggt tgtatcaaga aggtagcagg gctcacacca gctagctggc tgaatggtag 240
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aaattgctgg gggtaggcag caggtagctg gctgaatggt agttgttgtt gttgcaaata 360
agaagcagag ttcaatgcag ctagtgtggt gaatggaaga aactgctggt gctgagagta 420
ggcagcaagg tttgctagca caagttgttg tagttgttgt gccctgatgt tttgtgccaa 480
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<210> 7544

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-C11

<400> 7544

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tggcaagcca aggggggggtg aagagctttg cttagcacgc cttctggcac ctgcagtagc 180

ggaggtggca gtagccggcg gtccacccgc cgtcctcctt gacgcactcg ttgctgcaga 240
ggcggtcgga gatgcagggg aacgagtggg gctggctctt gcccatgcac acccgggcct 300
ccgccaccat cgtcgtcgtc gtcccggcgt cgtagtgtga gagcaggagc agcgccagga 360
ggagcgcgca cacggtcgcc ctggacttga tgagctccat cgccggccgg cgtggatcgg 420
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<210> 7545

<211> 524

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-C12

<400> 7545

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ctgcctcgac aagacaggat tcatcaaaga gaactgggtg tatggcagca attgttgctg 180
ctgtaggaag gcggcgacca atgggttagc cactaccaat ggattaagta actgttgctg 240
ctgtttagg tacgcagcag agttcgacag agtcagttgg ttgaatggaa gcagctgttg 300
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caattgttgt tgcaggtatg taggtgcatt gccacacgcg agcgggctag atgaaagcag 420
ttgttgttgt tgtacgtagg cggcagggtt caccatggct agttgactga gcgttggcag 480
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<210> 7546

<211> 487

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-C3

<400> 7546

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cctcgacaag acagggttta tcaaaaagaa ctggttgtat ggcagcaatt gttgctgctg 180

taggaaggca gcgaccaatg ggtaggccac tgctagtgga ttaaataact gttgtcgctg 240
 ttgtaggtac ccaccaaagt tcgacataat cagttgggtg aatggaagca gctgttgcaa 300
 gtaggcagca gggtttgcca caactagctg agtcagagct ggtacaatct gttgcaacaa 360
 ttgttggtgc aggtatgtag gtgcattggc cacagcgagc gggctagatg aaagcagttg 420
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<210> 7547
 <211> 511
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-073-Q1-N6-C4
 <400> 7547

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 gctgctgggt ttgtcaaagc aagttgggtg aatggcagca attgttgcag ttgtaagagg 180
 gtgccagcgt taggcgcagc gtgctggtta aacggcaaca actgtgggtg tatcaagaag 240
 gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
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 ggtagctggc tgaatggtag ttgttggtgt tgcaaataag aagcagagtt caatgcagct 420
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<210> 7548
 <211> 506
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-073-Q1-N6-C6
 <400> 7548

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ctagctacaa gctcattcct catgcactat gctcttcgca gttacttgga gggcatcggt 180
ccgccgccga gaatccaggg gcattcggcg acgccgctga tggtagccag gttgcactcg 240
gcctccgtga cgagggtggc ggcgaatccc ctctgcacct cccgcgggca gcccggcagg 300
tcctctaggc ggccctccag ctgcgcgtcc gggccccggcg ggatcgcgcc gtccatgagg 360
atgctcagcg ccgtgcaccg gcagtacgcc gggatgtccg ccagctcccg gcagcatctc 420
ctcttcagct ccggccacgg gaggcgcggc ccgatgccgc aggtccggct ggtcacgtac 480
cagcggcagc tcgggagcgg gttgtg 506

<210> 7549
<211> 527
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-073-Q1-N6-C7
<400> 7549

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attctagcta gcaatacggg taaaatctgc tctgttccgt tctgtttccc agcgggcgta 180
attcaacctt accacattca ggacaagtac aacattgaag ggttgcagct ctaatctggg 240
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tctctgggtct cctnccactt ctcttcatgc tctctcttcc tcttnacat atnttttgg 480
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<210> 7550
<211> 552
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-073-Q1-N6-C8
<400> 7550

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 tagaacgctg ctgggtttgt caaagcaagt tggttgaatg gcagcaattg ttgcagttgt 180
 aagaggggtgc cagcgtagg cgcagcgtgc tggtagaacg gcaacaactg tggttgtatc 240
 aagaaggtag cagggctcac accagctagc tggctgaatg gtagtagttg ttgctgctgt 300
 aaataagcag gagagttcaa tgctgccagt tggttgaatg gaagaaattg ctgggggtag 360
 gcagcaggta gctggctgaa tggtagttgt tgttgttgca aataagaagc agagttcaat 420
 gcagctagtt ggttgaatgg aagaaactgc tgttgcctgag agtaggcagc aaggtttgct 480
 agcacaagtt gttgtagttg ttgtgccctg atgttttgtg ccaataaatg caccaaaagt 540
 aactgatgta at 552

<210> 7551
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-073-Q1-N6-C9
 <400> 7551

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 ggaactagct ttagccctat aggtagctag tcagcggctc cattacatta ttactacagt 180
 acatagtttc cttagtagta aacacccccg gcagctgctt tgcaagggca gggacctggc 240
 tgctgcagct gcaaaccgca catcgccgtc agctgctgcg ctacctgggc cgccatcagc 300
 gccgggagct cccctgctg ttgttgcctg aggaaggact gcaggaccac accgtatgtc 360
 gcctgggtacc ggtgcagcgg ctccacctgc ctgatctggt ggcagcactg ttgctgcagc 420
 gcctggcact gtggcgagcc gtagggcgctc cccc 454

<210> 7552
 <211> 523
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-073-Q1-N6-D10
 <400> 7552

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 ctgacgtcca tgccgttgac gatgccggtg atgccggtga ggccgatgat gttgtcgagc 240
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 ttctcgtagc cgtcgatgaa atcgaaggac gacttgaatc tctccgggag gttcagctcc 420
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<210> 7553
 <211> 508
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-N6-D7

 <400> 7553

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 ctcataagca atctaaaaga gggcaccacc aatgatgggt tgttggtaga acgctgttgg 180
 gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga gggtgccagc 240
 gttaggcgca gcgtgcaggt agaacggcaa caactgttgt tgtgtcaaaa aggcaacagg 300
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 gttcaatgct gccagttggt tgaatggaaa aaattgctgg gggtaggcag cagctagctg 420
 actgaatggt agatggtgtt gcaaataaac agcanagtgc aatgcaggca gttggttgaa 480
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<210> 7554
 <211> 524
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-E1

<400> 7554

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ggagactaca gagacgggta acagctcatt tcagaggaat aaaccgag gagtgggtgg 180
caccgatacc gggcctgcc a tgcttgaccg gcttatagga gatggagaac tcagcaaggt 240
agtggccgat catctcaggc ttgatctcaa cctgggtgaa cgtcttgccg ttgtagacct 300
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ccatgggctt cctcttcaga cccctctgga accttctcct ggcgcgcgcg gggaagagct 480
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<210> 7555

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-E10

<400> 7555

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gttttttcaa aaaaaaatt tttttaagg ggggaccccg ccgccggacc cgggggggaa 180
ggagatggtt ttttgagggc caaaaaacgc ccgaaggggg ggggtttttg gggcggaaaa 240
aagccccaaa acgggggctt ttttgggtt tttttggaga aggaagtggg agccaaccc 300
aaaaaagcgg ggggcccggg ttggggg 327

<210> 7556

<211> 548

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-E11

<400> 7556

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 aagttattac aaagcattgc caattagact ccgtcacgca ttatactgag aaggtctaaa 180
 gggctctctt cattttttta ttgaaccaat gaaacggccg agggagctgt ttaagcacaa 240
 ataaaaaaaa gactaattaa ccataacatc agatgtatat ataaaatata acaaaaagaa 300
 gacaaaattc atagcccaca aatttttgaa ccgtcctgtt cataactcat tttattttat 360
 tataaggttct ctctccacac aaaaaatata attatcactt tttgaggggt caaataattt 420
 gaagtttgat caaaattata taaaaaggta ctccctctgt cccatattaa aattcgtttt 480
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 tcttttat 548

<210> 7557
 <211> 476
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-073-Q1-N6-E2
 <400> 7557

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 tcattctgga ttgacagcc cacaaaacac atgctgggccc ttgacgctcg cgccactca 180
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 aagccttacg cgggcgatcc ttggcccggg ggggcccggg ccacacgggg gatacatttg 360
 cgtttggtat ccctttcctg cccggctgca ggggtagtaa taacccccct gtcctcctcc 420
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<210> 7558
 <211> 356
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-073-Q1-N6-E4

<400> 7558

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aaaaaaaaaa acgaacaatt aaatcccccc aaggaggagaa aaaaaagagg cccaggaaac 180
aaagacagta aaagtcccaa aatcacccaa gggggggtaa cggaagagg ttttaaaggt 240
cagaataaat tcgaaaagga aaaaagcaac gggggggggg tattttaatt tttcgaaagg 300
ggggggaaaa atttgccttg gtcccaaat tttggggggg ggaggggaaa ttttcc 356

<210> 7559

<211> 540

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-E5

<400> 7559

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gaactagcta tagccctata ggtagctagt cagcggctcc attacattat tactacagta 180
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<210> 7560

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-E7

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gctgctgggt ttgtcaaagc aagttggaca aagggcagca actgttgcag ttgtaagagg 180
gttgcggggt tagccacaaa ctgctggttag aacggaagca cttgttgttg tgtcaagaag 240
gaagcggggc ttgtttagc tagctggcca aatggtagta gtatttgctg ctggaaataa 300
gcagaggggt tcagtgcggc caattggtta aatggaagaa at 342

<210> 7561

<211> 547

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-N6-E9

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gatttctttc gtcggaggag ggccctcaat cacggcgcg gggcgaaata tatttgatgc 180
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<210> 7562

<211> 523

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-F10

<400> 7562

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agcaagcaag gagaattctg ggatctgtac aagatagcag aactactcgt tgtacatttc 180
 agaacagttt cagaaacctg tttcaatggg gtatcaagag ggtatgtggg ggcacagatg 240
 actactagta atttacaacg cagccttgac cgttgtaaag ccacgacgac gctaatactc 300
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<210> 7563
 <211> 553
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-N6-F12
 <400> 7563

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<210> 7564
 <211> 474
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-073-Q1-N6-F3

<400> 7564

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gaaacaatac tgcagcgggt gcaaattcaa agcaaacttt gcaaacaatgt gagttcccat 360
ctttatcgct caggggatca ggggcctttt cttcatctc ctgaatttta gccttcaaac 420
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<210> 7565

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-F4

<400> 7565

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ttttatttcg gggaaagccc aaacatagtg caaaaaactt attttgggac cataactcaa 180
aagcaatata aaaagagggg cccccaagg gggggggggg gggagaaccg tgaggggggt 240
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<210> 7566

<211> 549

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-F6

<400> 7566

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ctagctagct agccagcggc tatactacag cacatagttt cttcagtggg ggacaccgcc 180

ggcagcagcg taggggcatg gagtcggctg ctgcaggccg cacatcgccg tcagttgctg 240
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ggactggagg accaagccga agatcgctg gtaccgggtg tgcggctcca cctgcctgag 360
ctgctggcaa cactgctgcc gcaacgactg gcactgaggc gagcagtagg gcgtcgccgt 420
cgggctgcac tgatgcctca gaaactcgac gcactggccc aggatcgggg tgctgccaac 480
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tggctgggg 549

<210> 7567

<211> 549

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-F9

<400> 7567

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acgcagttta accatgagca agctttgttt aattattaca gtctacgagt acttattcag 180
gcagatcact ctgaggttgt gcctactgtt gggcgctgcc agcttgacct tgttggtagc 240
tgccactgcc agcaggagta agcacagcca gctcatgctt cctaccgttc ttgagctctg 300
cagcttcttc catggagatg gcatacgagc tggcgatgac ggcggccggc aagtcgctca 360
ggacggagtt cttcccggca acgtggctga ccatggtgtc agggttcgtc tcgaaggcga 420
tgtactggaa gccttctccc tgcgccttgg tggcgacgag gtagccctgg ggtacgatga 480
gcagctgccc cgcacggagc acgtcgtcga acaccgtggt cccgttgctg ctggcgacct 540
ggacccttg 549

<210> 7568

<211> 520

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-G1

<400> 7568

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 ctgttgggtt tgtcaaagca agttgggtga atggcagcaa ttgttgcagt tgtaagaggg 180
 tgccagcggt aggcgcagcg tgcaggtaga acggcaacaa ctgttgttgt gtcaagaagg 240
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 cagcagagtt caatgctgcc agttgggtga atggaagaaa ttgctggggg taggcagcag 360
 ctagctgact gaatggtagt tgttgttgca aataagcagc agagttcaat gcagccagtt 420
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 ggtggtagtt tgttgtgcct ttgatgtttt gggccaacaa 520

<210> 7569
 <211> 493
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-N6-G10
 <400> 7569

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 gctctctctc tcgtacttcc tgggcatggt tgaactttgc ctcagcttta tccatagcct 180
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 gtggggcact agttggctgt gtgaagaggg gaatcttana agctgtaagc catatctcat 480
 cttcggattc atc 493

<210> 7570
 <211> 470
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-073-Q1-N6-G11

<400> 7570

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ccccaaaaaa aaaggggtta aaaaaaaagg gggggcggtg tgaaaccaa aaaggaacac 180
ccccgcccc ggggggtttt atttggtac caacaaaaaa attaaggga gcaacaacc 240
aagaaggggc ggtgcattaa aaaagcccc ccccgctct tgtcaacact ggcaacaata 300
gcggcagggg caggagtgtt attttaaaaa agggcaacaa acccgcggg ttggttctta 360
accttgaggc caaacttttg gatggggggg acaaagggg gggggggggg aaccactca 420
aaggccgcct tggaaaacct ggccaattt tgcacctgct tccctgggg . 470

<210> 7571

<211> 549

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-073-Q1-N6-G2

<400> 7571

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attgaactat aactcataag aaatctaaaa gaggcaccac caatgatggg ttgttggtag 120
aacgctgctg ggtttgtcaa agcaagtggg ttgaatggca gcaattgttg cagttgtaag 180
aggggtgccag cgttaggcgc agcgtgctgg tagaacggca acaactgttg ttgtatcaag 240
aaggtagcag ggctcacacc agctagctgg ctgaatggta gtagttgttg ctgctgtaaa 300
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gcaggtagct ggctgaatgg tagttgttgt tgttgcaa atagaagcaga gttcaatgca 420
gctagttggt tgaatggaag aaactgctgt tgctgagagt aggcagcaag gtttgctagc 480
acaagttggt gtagttgttg tgccctgatg tttgtgcca ataanatgca ccaaagtaac 540
tgatgtaat 549

<210> 7572

<211> 91

<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-N6-G3

<400> 7572

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 attattgaac tataactcat aagaaatcta a 91

<210> 7573
 <211> 322
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-073-Q1-N6-G4

<400> 7573

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 tgcccccaaca agaccgggggt taacaaaaaa aaccgggtgt atggcaacaa ttgttgctgc 180
 tgtaggaagg cccccacca tggggtaccc accgctaggg gataaaaaaa ccgttgcccc 240
 tgttgtaggg ccccccaaa attccacaaa atcaattggg tgaaaggaaa cacctgttgc 300
 aagaaggcaa caaggtttgc cc 322

<210> 7574
 <211> 472
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-073-Q1-N6-G5

<400> 7574

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 gacaacagta catcaaatag ctagataact gggaagccaa aaaccgtct cagggggggac 120
 caccataaat ggggcttaca caacatagcc aacatgcaaa ttattttaaa actgacaaaa 180
 tgcagaggca ggaattttcg aggggggcta caaaaggggg caccgggcac tggaatgcc 240
 aaaaacaaga ttgtagcacc aaacatggaa aaaaaggggg cgggggggcaa ggcaaaat 300
 ccccatgaca agttaccgcg gtttacaatt ttcctgatac ccaaccggag ggaaccccc 360

ctaaatcttg gcaagcttgt ttgccttcac caccggatta accttggcaa tggggtccct 420
ggcagcagtc cggtagtaaa acttgcaatc gggcttgtcg gaatagcggg gg 472

<210> 7575

<211> 533

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-G6

<400> 7575

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ttgggttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt ttaaaaaaaaa aaaaaaaggg cctttttttt ttgggggggg ccaaaaaaca 180
aaaaaaaaaa attttttttt aaaaacaaac ccaaaaaaaaa aaaaaaaagg gggccccccc 240
aaaagggggg gggggaaaaa aaccggggg gttaaaaaa aaaagggggg aaaaggga 300
aaaattggcc aaaaaaaaaa ggggcccccc ttaagcccca cgggggtgaa aaaaaaaaaa 360
aaaatggggg gggaaaaaaa aggggagggg gccaaaaaaa aaaaaaggga aaaaaggaaa 420
aagtgggtcc cccttaaaaa aaacgggaaa ggcaaaaccc cccaaggggg aaaaaaaaaa 480
aaaaaggggg ggggaagaaa aaaaaaacg caaaaaaaaa aattgggttt tgg 533

<210> 7576

<211> 483

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-G7

<400> 7576

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attattgaac tataactcat aagaaatcta aaagagggca ccaccaatga tgggttggtt 120
gtagaacgct gctgggtttg tcaaagcaag ttggttgaat ggcagcaatt gttgcagttg 180
taagagggtg ccagcgtag gcgcagcgtg ctggtagaac ggcaacaact gtggttgat 240
caagaaggta gcagggtca caccagctag ctggctgaat ggtagtagtt gttgctgctg 300
taaataagca ggagagttca atgctgccag ttggttgaat ggaagaaatt gctgggggta 360

ggcagcaggt agctggctga atggtagttg ttgttgttgc aaataagaag cagagttcaa 420
 tgcagctagt tggttgaaag gaagaaactg ctgttgctga gagtaagcag caagggttgc 480
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<210> 7577

<211> 557

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-G8

<400> 7577

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 aagtataact cataagcaat ctaaaagagg caccaccaat gatgggttgt tggtagaacg 120
 ctgttgggtt tgtcaaagca agttgggtga atggcagcaa ttgttgctgt tgtaagaggg 180
 tgccagcggt aggcgcagcg tgcaggtaga acggcaacaa ctgttgctgt gtcaagaagg 240
 caacagggct cacatcagct agctggctga atggtagtag ctgttgctgt tgtaaataag 300
 cagcagagtt caatgctgcc agttgggtga atggaagaaa ttgctggggg taggcagcag 360
 ctagctgact gaatggtagt tgttgctgca aataagcagc agagttcaat gcagccagtt 420
 ggttgaatgg aagaaactgc tgttgctgag agtaggcagc aagggttctc agcacaagtt 480
 gttgtagttg ttgtgccttg atgttttgtg ccaacaaatg caccaaaggt aactgctgta 540
 atagggtctga cggttgt 557

<210> 7578

<211> 523

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-G9

<400> 7578

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 ttgttctggc tattatgtat aattacattt aaggaatctg gggcggtcac attgatacac 120
 taccctctat tagaataggt aagatctgta ggggaatgct accgacacta gataaagaga 180
 tcaactcaat gcgaacctct atctctatga atgtggatgc tacggaaagc actggaaact 240

agatctatatt gaaaaggaac agaaagatgc gctgcctaga tcctaaaata tgtcaccagc 300
 aaacgaggaa acatagcgat atggagtgtg caacgaggca tgctttctac caaagccttc 360
 aagattgacc aaggctcttt tcctagcttc ttttctctc attttcttga attaatgtgt 420
 ccatctcctt ctgcccagta gctatcagtg tcttcaccgt gtcaaacacg gtcagttaa 480
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<210> 7579

<211> 495

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-H10

<400> 7579

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 gggggccata ccttatccaa aaaacttttt tgggggggtg gcgcttataa tcaatttaaa 180
 agggggcccc ccccatgatg tgttggtggg agggggcttt tgggtttttc aaaacaaggt 240
 ggacaaaggg caacaattgt tgtatttgta aaaggggtgg ggggtttgcc ccaaactggt 300
 ttaaaaaagg ggaaaactgt tgttttgtca aaaaggggaac ccgaattggt ggagtttagct 360
 ccctaaatgg gaggagtttt tgttggtgga aataaagcgg ggggtttagg gcgggccatt 420
 ggttaaattg aaaaaatttt tgttttttga agttggccga aactagctgg ctaaaagggg 480
 aaaggtggtt ggtgg 495

<210> 7580

<211> 537

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-H12

<400> 7580

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 aggagggcgg tgggtctgtc aaagcaagtt ggacaaaggg caacaattgt ttagttgta 180

agaggggttc ggggttagcc gcaaactgct ggtagaaagg cagcaactgt tgctgtgtca 240
agaaggaagc acggtttgct gcagctagct ggctaaatgg tagtagtatt tgctgctgca 300
aataagcagc ggggttcagt gcggccaatt ggttaaattg aagaagttgt tgttgctgag 360
agtaggcagt agctagctgg ctaaattggt atagttgttg ctgcaaataa gcagcagggt 420
tcagtgtaaa cagttgggtg aatggaagaa attgttggtg ctgagagtag ggagaaagg 480
ttgccagagc tacttggttg atcagaggta gcacgagttg ctgcagctgt tgtgccc 537

<210> 7581

<211> 529

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-H2

<400> 7581

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cccttgccag ctatagcaaa agccagctca agccagggtga atgtctcggg agcaatcctt 180
tggtgataca cttcttttcc gatttaagtt gagatacagt agggttccgt ctccaaagcc 240
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gagtctcatc agttgggagt ctaagatcat ccttagtggt gccatctgaa gtaagaaggc 420
tcacaaatcc atcctcagaa atatcaatca gctgatactc agtacggttc acatgcggaa 480
tgtcacagtt gtgtgatgaa ggaacaatat cttcaagctt tttcccatt 529

<210> 7582

<211> 550

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-H3

<400> 7582

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gaactataac tcataagaaa tctaaaagag ggcaccacca atgatgggtt gttggtagaa 120

cgctgctggg tttgtcaaag caagttgggtt gaatggcagc aattgttgca gttgtaagag 180
 ggtgccagcg ttaggcgcag cgtgctggta gaacggcaac aactgtgggtt gtatcaagaa 240
 ggtagcaggg ctacaccag ctagctggct gaatggtagt agttgttgct gctgtaaata 300
 agcaggagag ttcaatgctg ccagttgggtt gaatggaaga aattgctggg ggtaggcagc 360
 aggtagctgg ctgaatggta gttgttggtt ttgcaaataa gaagcagagt tcaatgcagc 420
 tagttgggtt aatggaagaa actgctgttg ctgagagtag gcagcaaggt ttgctagcac 480
 aagttgttgt agttgttggt ccctgatggt ttgtgccaat aaatgcacca aaggtaactg 540
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<210> 7583
 <211> 553
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-073-Q1-N6-H5
 <400> 7583

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 tgctgctggg tttgtcaaag caagttgggtt gaatggcagc aattgttgca gttgtaagag 180
 ggtgccagcg ttaggcgcag cgtgctggta gaacggcaac aactgtgggtt gttgtaagaa 240
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 agcaggagag ttcaatgctg tcagttgggtt gaatggaaga aattgctggg ggtaggcagc 360
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 tagttgggtt aatggaagaa actgctgttg ctgagagtag gcagcaaggt ttgctagcac 480
 aagttgttgt agttgttggt ccctgatggt ttgtgccaat aaatgcacca aaggtaactg 540
 ctgtaatagg gct 553

<210> 7584
 <211> 545
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-073-Q1-N6-H6

<400> 7584

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atggccacaa acatgcaaga gctggaagta gattccgagt agaggtccaa cgtccaaggc 180
gagctatctc gagtccacaa cgggtgccttc tggaagcgcg gacaggtgca caagaggggc 240
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aatttgcatt gccatattct gcaaaggagc agggccaaga tagtacttgt tgccaattgg 480
atctggagtg gaaacgaaca ctaagacgcc tgtcacagct ggtttcaagg gatctccttc 540
cttgt 545

<210> 7585

<211> 547

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-073-Q1-N6-H7

<400> 7585

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acagcacata gtttcttcag ggggggacac cgccggcagc agcgtagggg catggagtcg 180
gctgctgcag gccgcacatc gccgtcagtt gctgcgctat ctgcgcccgc aacagccccg 240
cgacctggcc gctttgcggc tgctgctgca ggatggactg gaggaccaa cgaagatcg 300
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gcggttg 547

<210> 7586
 <211> 552
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-073-Q1-N6-H8

<400> 7586

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 caataagggtg gtaggattcg tcaaagcatg ttggctaaat ggtagcaatt gttgttgttg 180
 taagaaggca acaatgtttg ccacattctg tgggtagaat ggtagcaatt gttgctgttg 240
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 gtagatagca gggttcacc cagctagttg attgaatgga agaaactgtt gttgctggag 480
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 ttgttgtgcc gc 552

<210> 7587
 <211> 484
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-A1

<400> 7587

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 aggggggggg gggggggaag ggggggttaa aggagggggg ttgggggggg gggggggggg 120
 ggttggggaa aagggggggg aaagggggaa aattgggggg ggttgggggg gggggggggg 180
 gttgggtaga aaaggaggga aaaaaggggg aaggtggggg ggggggaggg ggggaggagg 240
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 gggaggatat ggggggtaga ggggtagggg ggaagggggg gaggggggag ggggggggga 360
 gagggagggg gggagggggg gggaggggat ggggtgggtg gaggggggga gggagtgggg 420

aggggggggaa ggaaggaggg aggaggggag gagggagggg ggggatcccc ccccccccc 480
cccc 484

<210> 7588

<211> 510

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-A10

<400> 7588

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ggacaaaagg caacaattgt tgtatttgta agaggggtgc gggggtagcc ccaaactgct 180
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ggctaaatgg gaggaggatt tgctgtgtca aataaacagc ggggttcagt gcggccaatt 300
ggttaaatgg aaaaattggt gttgctgaaa gtaagcacta gctagctggc tgaatggtaa 360
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tgttgttgct gaaaaaggga gaaagtttgc cacacctact tggatgatca caggtagcac 480
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<210> 7589

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-A11

<400> 7589

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ggaggatcgg gccatggatc agggccccc aaagggggggg gggccactgc caaagctcgc 180
tccagtcccc gcgttacagc caaggagggg gaactctttc cttcccctaa aaaccttttt 240
ttaaaccacg ggtagggcta aactggcacc ggggctagtt ttattgccgg gggcgggcgt 300
tgtccccggg gcggcccccg gcaaaggaaa cgggggaaag gcggttgggg cggggccccc 360

cggggcccgc gcgggggggg ggcttccccg ggggggaggg gcgggcggtg gacgaaaggg 420
cgcgggggggc gaaaaggggg gccttcaggg ggcc 454

<210> 7590

<211> 538

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-A12

<400> 7590

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gtttagattg taagaggggt gcgggggttag ccgcaaactg ctggtagaaa ggagcaact 240
gttgctgtgt caagaaggaa gcacggcttg ctgcagctag ctggctaaat ggtagtaata 300
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<210> 7591

<211> 520

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-074-Q1-N6-A2

<400> 7591

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actttattat tgaattacaa ctaataatca atctaaaaga gggcaccacc aatgatgtgt 180
tgttggtagg aggctgctgg gtttgtcaaa gcaagttgga caaagggcaa caattgttgt 240
agttgtaaga ggggtgcggg gttagccgca aactgcttgt agaaaggcag caactgttgc 300
tgtgtcaaga aggaagcacg acttgctgca gctagctcgc taaatggcag tagtatttgc 360

tgctgcaa at aagcagcggg gttcagtgcg gccaatgggt taaatggaag aagttgttgt 420
 tgctgagagt aggcagtagc tagctggcta aatggtaata gttgttgctg caaataagca 480
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<210> 7592

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-A3

<400> 7592

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 tggaaaaaaaa aaaagggggc ccccaaacgg ggggggggac gaggggggggt ttaaaaaaaaa 180
 aaaagggggg aaggggaaaa aatgttggtt gttggcagaa gggggggcca caaaaggggg 240
 accccccgcc gggggaaaaa aaaacaggag ccggtggtgg gggggcccaa gagaattggc 300
 cccccccagg ggggtaaaaa aaaaaaat tttggaaaaa ggaaggggggt tccccccaag 360
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<210> 7593

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-A5

<400> 7593

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 taaactagcg agctaggtag ctagtcagcg gtcccattac attattacta cagtacatag 180
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<210> 7594

<211> 525

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-A6

<400> 7594

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gagacaatac cgcacattta catttgtgat tttcacttac tgcagaattt cacctatatc 180
tacaatctgt aaagggaatg aatccacact gcattacaca cgtatgaatc attataccac 240
cccaaaccac aacataattc caatgtttat tgacatctca agtaatagtt tcagcaccag 300
cacacctgct tatctatcca ggtgtgtcta cactctatcc gtagcaaggc cttgcgattt 360
cactacttca aacataggct gcttgtagct tggatgatat cattcttcca actattacc 420
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<210> 7595

<211> 488

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-A7

<400> 7595

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ccatttttagc agcacaggcg gctattacga tttggctatt tctagtatta catacacatg 180
aaggcatggt taggagcata atcgaattca cttgactgca ggaatcagtc cacctgacga 240
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cggtctcgga ggcaaggggg aagcaggcac accaccgttt gcattcgagt cgcccttcag 360
gctcaattca aacatgttgt aaaggctctt ggcattcagg ggaggcggtg aatgaacagc 420
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aacataac 488

<210> 7596

<211> 524

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-074-Q1-N6-A8
 <400> 7596

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aagtagatac aagatacggc catgctagag cactgtatct aattcacaaa aaataaaaaga  180
aatacgggaat agtgagcaag gtaaattaaa agactcgacg agcttgccacc agcgaaaaaa  240
aaaggaaatc aagggttact tactcctctt atccccccgg gctgtgatta cgtctaaaac  300
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<210> 7597
 <211> 517
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-074-Q1-N6-B1
 <400> 7597

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ccatggattt tataaatcga agtaggtcaa ctgaaaaaaaa aaacgacgcc taagatgtat  180
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atgcagggga agcagacgcg gagaaaccat acgcatagac cattggagca accactgtag  300
gatggtcgaa tttacagttg ggcgcgaact tgcagatgcc gtaacgagaa tagaatttgc  360
acagttcttc acctggacgt agtgaagac ccattggact taagacacaa tctggagggg  420
gcagtgatct caccgggga tgatggaact tgcacactgc accgaattta caatctctg  480
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<210> 7598
<211> 529
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-B11

<400> 7598

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tagaatgctg ctgggtttgt caaagcaagt tggttgaatg gcagcaattg ttgcagttgt 180
aagaggggtgc cagcgttagg cgcagcgtgc tggtagaacg gcaacaactg tggttgtgtc 240
aagaaggtag cagggctcac accagctagc tggctgaatg gtatgtagttg ttgctgctgt 300
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gcagcagata gctggctgaa tggtagttgt tgttggtgca aataagaagc agagttcaat 420
gcagctagtt ggttgaatgg aagaaactgc tgttgctgag agtaggcagc aaggtttgct 480
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<210> 7599
<211> 518
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-B2

<400> 7599

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ctgttgggtt tgtcaaagca agttggttga atggcagcaa ttgttgctgag tgtaagaggg 180
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cagcagagtt caatgctgct agttggttga atggaaaaaa ttgctggggg taggcagcaa 360
ctagctggct gaatggtaat tgttggtgca aataagcagc agagttcaat gcagccagtt 420
ggttgaatgg aagaaactga tgttgctgag agtatgcagc aaggtttgct agcacaagtt 480
gtttagtagttg ttgtgccctg atgttttgtg ccaccaa 518

<210> 7600
 <211> 534
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-074-Q1-N6-B3

 <400> 7600

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 taaggattga cagtatcgca gaaggaacag tccagatccc atcaccacag atcaagccag 180
 aggcaaccgc acctgcgaag tcatcaçact ccttgçgggt caccctctcc cagacgaaaa 240
 ggataactgt cccaacaaac atgtcgatgg cgaagtacgc accgatgtag aagggaatgg 300
 ccatagccat cgggattggg atgaatctgg agacattctt tggggtgacg tccctgagga 360
 ggttgatcac tagagatgca atgaagaaaa acgagcagat cgctaggcag tgctgaggca 420
 gtgcagaaaa cccttcacg ccaagaattg acatctcacg gaagattaca gcatatggag 480
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<210> 7601
 <211> 521
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-074-Q1-N6-B5

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 aattgttgca gttgtaagag ggtgccagcg ttaggcgcag cgtgctggta gaacggcaac 180
 aactgtgggtt gtatcaagaa ggtagcaggg ctacaccag ctagctggct gaatggtagt 240
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 aattgctggg ggtaggcagc aggtagctgg ctgaatggta gttgttggtt ttgcaaataa 360
 gaagcagagt tcaatgcagc tagttggttg aatggaagaa actgctgttg ctgaaagtag 420
 gcagcaaggt ttgctagcac aagttgttgt agttgttgtg ccctgatggt ttgtgccaat 480

aaatgcacca aaggtaactg atgtaatagg gctgatgatt g

521

<210> 7602

<211> 492

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-B9

<400> 7602

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ctgttgagtt tgtcaaaaca agttggttga atggcaacaa ttgttgctgc tgtaaaaggg 180
tgccagcggt aggcataacg tgcaggtaaa acggcaacaa ctgttggtgt gtcaaaaagg 240
cagcagggct cacatcaact aactggctga atggtaatag ttgttgctgc tgtaataaaa 300
cagcaaagtt caatgctgct agttggttga atggaaaaaa ttgctggggg taggcaacaa 360
ctaactggct gaatggtaat tgttggttga aataaacagc aaagttcaat gcaccagtt 420
ggttgaatgg aaaaaactga tgttgcttaa agtattcaac aaggtttgct aacacaaatt 480
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<210> 7603

<211> 499

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-C1

<400> 7603

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ctgttggggt tgtcaaagca agttggttga atggcagcaa ttgttgctgc tgtaagaggg 180
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cagcagggct cacatcagct agctggctga atggtagtag ttgttgctgc tgtaataaag 300
cagcagagtt caatgctgct agttggttga atggaagaaa ttgctggggg taggcagcaa 360
ctagctggct gaatggtaat tgttggttga aataagcagc agagttcaat gcagccagtt 420

ggttgaatgg aagaaactga tgttgctgag agtatgcagc aaggtttgct agcacaagtt 480
ggtgtagttg ttgtgccct 499

<210> 7604

<211> 492

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-C10

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gctgcaataa ggtggttagga ttcgtcaaag caagttgggt aaatggcagc aattgttggt 180
gttgtaagaa ggcgacattg tttgccacat cctgtgggta gaatggtagc aactgttgct 240
gttgcaagaa ggcgttaatg tttcccacaa cctgtgggta aaatggcagc aattgttggt 300
gttggtgcaa gaaagcagca atgtttgcca caactttag atggaatgga agcaactgtt 360
gctgcagtaa gaaggcagca gggctcctga caagttgggt gaatggtagt agctgttggt 420
cctgcaagta agcagcaggg ttcaccccag ctagttgatt gaatggaaga aattgttggt 480
gctggagggtc ag 492

<210> 7605

<211> 551

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-C12

<400> 7605

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agttgtgaag aggggtgccag cgtaggcgc aacgtgctgg tcgaacggca acaactgtgg 240
ttgtgtcaag aaggtagcaa gcctcacacc atctagctgg ttgaatggta aaagctgttg 300
ctgctgcaaa taagcaggag agttcactgc tgacagttgg ttgaatggaa caaattgctg 360

ggggtaggca gcaaatagct ggctgaatgg tagttcgtgt tgttgcaaata aataatcaga 420
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<210> 7606

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-C6

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 gccagcggtt ggccgagcgt gctggtagaa cggcaacaac tgtgggtgta tcaagaagggt 240
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<210> 7607

<211> 531

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-C9

<400> 7607

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tgccaacgcc gcaggttccc tgcagctggc acgggcttgg atgcggctgt t 531

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<223> Clone ID: LIB3061-074-Q1-N6-D10

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cctcgacaag acaggattca tcaaagagaa ctggttgtat ggcagcaatt gttgctgctg 180
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ttgttggtgc aggtatgtag gtgcattgcc cacagcgagc gggctaaatg aaagcagttg 420
ttgttggtgt acctaggcgg cagggttcac catggctagt tgactgagcg ttggcaaaaa 480
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<210> 7609

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-D11

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gcaccaccaa tgatgggttg ttggtagaac actggggggg ttgtcaaagc aagttgggtg 180
aatggcagca attgttgcag ttgtaagagg gtgccagcgt taggcatagc gtgcaggtag 240
aacggcaaca actgttggtg tgtcaagaag gcagcagggc tcacatcagc tagctggctg 300
aatggtagta gttgttgctg ctgtaaataa gcagcagagt tcaatgctgc tagttgggtg 360
aatggaagaa attgctgggg gtaggcagca actagctggc tgaatggtaa ttgttggtgc 420

aaataagcag cagagttcaa tgc

443

<210> 7610

<211> 534

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<223> Clone ID: LIB3061-074-Q1-N6-D12

<400> 7610

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gcacctccaa cgatgggttg ctgcaagggg ggggtcatca aagagaactg gttgtatggc 180
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aatggaagca actgttgtaa gtaggcagca gggtttgcca cagctagctg agtcagagct 360
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gggctagatg aaagtagttg taggtagacg gcaggggttca ccatggctag ttgactgagc 480
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<210> 7611

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-D2

<400> 7611

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tttccaaaaa aaaaaatttt tttagggggg ggaacccccg gggaaaaggg ggggggaggg 180
gagggggggg gggggggcca aaaaaggccg gagggggggg ggtttttggg ccccaaaaaa 240
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aaaacccggg gaccgggggg gggggccccc ccggcggggg ggggggaaaa aattggggcc 360
aaaaaaaggg gccttggggg aaaaaagggg gcccc 396

<210> 7612
 <211> 545
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-074-Q1-N6-D3

<400> 7612

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 gttggttagga ggctgctggg tttgtcaaag caagttggac aaagggcaac aattgttgta 180
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 ccttg 545

<210> 7613
 <211> 504
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-074-Q1-N6-D4

<400> 7613

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 ctgcctcgac aagacagggg tcatcaaaga gaactgggtg tatggcagca attgttgctg 180
 ctgtaggaag gcagcgacca atggggtagc cactgctagt ggattaagta actattgtcg 240
 ttgttgtagg taccacacag agttcgacac aatcagttgg ttgaatggaa gcagctgttg 300
 caagtaggca gcagggttg ccatagctag ctgagtcaga gctggtagat tctattgcaa 360

caattgttgt tgcaggatatg taggtgcatt ggccaaaacg agcggggtaa atgaaagcag 420
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 aaactgttgc agctgttggt gtta 504

<210> 7614
 <211> 509
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-074-Q1-N6-D5
 <400> 7614

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 aaaaaggcac ctccaacgat gggttgctgc ctcgacaaga caggattcat caaagagaac 180
 tggttgtatg gcagcaattg ttgctgctgt aggaaggcgg cgaccaatgg gttagccact 240
 accaatggat taagtaactg ttgtcgctgt ttaggttacc cagcaaagtt cgacagagtc 300
 agttgggttga atggaagcag ctgttgcaag taggcaacag gggttgccac agctagttga 360
 gtcaaagctg gtacaatctg ttgcaacaat tgttggtgca ggtatgtagg tgcattgccc 420
 acagcgagcg ggctaaataa aagcagttgt tgttggtgta cgtaggcggc aggggttcacc 480
 atggctagtt gactgagcgt tggcaaaaa 509

<210> 7615
 <211> 544
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-074-Q1-N6-D6
 <400> 7615

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 ctgctggggt tgtcaaagca agttgggtga atggcagcaa ttgttgagct tgtaagaggg 180
 tgccagcggt aggcgcagcg tgctggtaga acggcaacaa ctgtgggtgt atcaagaagg 240
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caggagagtt caatgctgcc agttggttga atggaagaaa ttgctggggg taggcagcag 360
 gtagctggct gaatggtagt tgttgttgtt gcaaataaga agcagagttc aatgcagcta 420
 gttggttgaa tggaagaaac tgctgttgct gagagtaggc agcaaggttt gctagcacia 480
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<210> 7616

<211> 528

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-D7

<400> 7616

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 gttggttagga ggctgctggg tttgtcaaag caagttggac aaagggcaac aattgttgta 180
 gttgtaagag ggttgcgggg ttagccgcaa actgcttgta gaaaggcagc aactgttgct 240
 gtgtcaagaa ggaagcacga cttgtgcag ctagctcgct aaatggcagt agtatttgct 300
 gctgcaaata agcagcgggg ttcagtgcgg ccaattggtt aaatggaaga agttgttgtt 360
 gctgagagta ggcagtagct agctggctaa atggtaatag ttgttgctgc aaataagcag 420
 cagggttcag ttagacagct tgggtgaatg gaagaaattg ttgttgctga gagtagggag 480
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<210> 7617

<211> 544

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-074-Q1-N6-D8

<400> 7617

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 ctgctggggt tgtcaaagca agttggacaa agggcagcaa ctgttgccagt tgtaagaggg 180

ttgcgggggtt agccacaaac tgctggtaga acggaagcaa ttgttggtgt ttcaaaaagg 240
 aagtgggggtt tggttagct agctggccaa atggtagtag tatttgctgc tggaaataag 300
 cagaggggtt cagtgcggcc aattgggttaa atggaagaaa ttgttgctgc tgagagtagg 360
 cagtagctag ctggctgaat ggtagtagtt gttgttggtg taaataagca gcagggttca 420
 gtgtagacag ttggttgaat ggaagaaatt gttgttgctg agagtaggga gaaagggttg 480
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 tttg 544

<210> 7618

<211> 540

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-074-Q1-N6-D9

<400> 7618

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 taggaggccg ctcggtctgt caaagcaagt tggacaaagg gcaacaattg ttgtagttgt 180
 aagaggggtt cgggggttagc cgcaaactgc tggtagaaag gcagcaactg ttgctgtgtc 240
 aagaaggaag cacggtttgc tgcagctagc tggctaaatg gtagtagtat ttgctgctgc 300
 aaataagcag cgggggttcag tgcggccaat tggttaaatg gaagaagttg ttgttgctga 360
 gagtaggcag tagctagctg gctgaatggt aatagttggt gctgcaaata agcagcaggg 420
 ttcagtgtag acagttgggt gaatggaaga aattgttggt gctgagagta gggagaaagg 480
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<210> 7619

<211> 536

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-E1

<400> 7619

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 tgctggggtt gtcaaagcaa gttggttgaa tggcagcaat tggtgcagtt gtaagagggt 180
 gccagcggtt ggcgagcgt gctggtagaa cggcaacaac tgtggttgta tcaagaaggt 240
 agcagggtc acaccagcta gctggctgaa tggtagtagt tggtgctgct gtaaataagc 300
 aggagagttc aatgctgcc a gttggttgaa tggagaagaa tgctgggggt aggcagcagg 360
 tagctggctg aatggtagtt gttggttggt caaataagaa gcagagttca atgcagctag 420
 ttggttgaat ggaagaaact gctgttgctg agagtaggca gcaaggtttg ctagcacaag 480
 ttgtttagt tggttgccc tgatgttttg tgccaataaa tgcaccaaag gtaact 536

<210> 7620
 <211> 515
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-E10

<400> 7620

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 gctgcaaggc agggttcatc aaagagaact ggttgtagtg cagcaattgt tggtgctgct 180
 gcaggaaggt agcgaccaat gggtaggcca ctgccaatgg attaagtaac tggtgctgct 240
 gttgtaggta cgcagcagag tttgacacag ccagttgggt gaatggaagc aactgttgta 300
 agtaggcagc agggtttgcc acagctagct gagtcagagc tggtagaatt tggtgcagca 360
 actgttggtg taggtacgta ggtgcattgc ccaccgcag cgggctagat gaaagtagtt 420
 gtaggtagac ggcagggttc accatggcta gttgactgag cactggcata aactgttgca 480
 gctgttggtg ttgctggtat gcagctacgt tcgcc 515

<210> 7621
 <211> 491
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-E11

<400> 7621

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cctcgacaag acaggattca tcaaagagaa ctgggttgat ggcagcaatt gttgctgctg 180
taggaaggcg gcgaccaatg ggtagccac taccaatgga ttaagtaact gttgctgctg 240
ttgtaggtac ccagcaaagt tcgacagagt cagttgggtg aatggaagca gctgttgcaa 300
gtaggcaaca gggtttgcca cagctagttg agtcaaagct ggtacaatct gttgcaacaa 360
ttgtttgttc aggtatgtag gtgcattgcc cacagcgagc gggctaaatg aaagcagttg 420
ttgtttgttg acgtaggcgg caggggttcac catggctagt tgactgagcg ttggcagaaa 480
ctgtttgtagc t 491

<210> 7622

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-074-Q1-N6-E3

<400> 7622

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gggggaaaaa aaaaaaagg gggaaaaagg gggggccccc cagggggggg gggggggggg 120
gggggggggg ggttttaaaa aaaggggggg aaaaagggga aaaattgggg gaataaaaaa 180
gggggggggg gggtacccca aaatgggggg aaaaagggg gaaatttggg ggggaaaaaa 240
aaagaaaagg gggggggggg ccttgggggg gaaaagggga aaattttttg ggggaaaaaa 300
aaaaaggggg gggtaaaggg ggcaaattgt taaaaaaaaa aaaattttgt ttggaaaaaa 360
ggaaagnctt gcgggggaaa aagggaat gcgggggc 398

<210> 7623

<211> 534

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-E4

<400> 7623

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 ccattatcga gtacatctca tatgtaatct aaaagaggca cctccaacga tgggttgctg 120
 ccacaacaag gcaggggttca tcaaagagaa ctgggtgtat ggcagcaatt gttgctgctg 180
 taggaaggca gcgaccaatg ggtaggccac cgctagtgga ttaagtaact gttgtcgctg 240
 ttgtaggtac gcagcagagt tcgacacagt cagttgggtg aatggaagca gctgttgcaa 300
 gtaggcagca gggtttgcca cagctagctg agtcagagct ggtacaatct gttgcagcaa 360
 ctgttggttg aggtatgtag gtgcattaac cacagcgaga gggctagatg aaatcagttg 420
 ttgctgttgt aggtaggcgg caggggttcac catggctagt tgactgagcg ctggtagaaa 480
 ctgttgcaat tgttggtgtt gttggtaggc aactatgttt gccagagcaa gtgg 534

<210> 7624
 <211> 467
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-074-Q1-N6-E7

 <400> 7624

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 caacttgctc aaacccatcg cacatgctgg ggctatTTTT ttttcaactt ctccaaattg 180
 gccatgctca aagcccaaac ttcgctggga atctgaattt ccaccggacc cccacagttc 240
 accccctttg ggaaaattca taatgccgc agctttcttt tttttttaag cccccttttg 300
 ccccggtgtt tatgaacatc aaaatttgag ccaaattac tggattatc cccgggacga 360
 ttggggaccc ttctatttta aaaagaatcc ccccttgggc tgtttgaaat actgctcgag 420
 ctggatatcc cacgtttatt tgcattgtct cctctatttg gggctaa 467

<210> 7625
 <211> 495
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-074-Q1-N6-E8

 <400> 7625

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 aacactgctg ggtttgtaa agcaagttgg ttgaatggca gcaattgttg cagttgtaag 180
 aggggtgccag cgttaggcgc aacgtgctgg tagaacggca acaactgtgg ttgtgtcaag 240
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 gcaggtagct ggctgaatgg tagttgttgt tgttgcaa atagaagcaga gttcaatgaa 420
 cctagttggt tgaatggaaa aaactgctgt tgctgagagt aggcagcaag gtttgctagc 480
 acaagttggt gtagt 495

<210> 7626

<211> 511

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-E9

<400> 7626

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 ctgcctcgac aagacaggat tcatcaaaga gaactgggtg tatggcagca attgttgctg 180
 ctgtaggaag gcggcgacca atggggttagc cactaccaat ggattaagta actgttgctg 240
 ctgttgtagg taccagcag agttcgacag agtcagttgg ttgaatggaa gcagctgttg 300
 caagtaggca acagggtttg ccacagctag ttgagtcaga gctgggtacaa tctgttgcaa 360
 caattgttgt tgcaggtatg taggtgcatt gccacagcg agcgggctag atgaaagcag 420
 ttgttggtgt tgtacgtagg cggcagggtt caccatggct agttgactga gcgttggcag 480
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<210> 7627

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-F10

<400> 7627

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atgtctcgca ttgttcgcgt tgctccagcc ggcgaaggag aatgaataaa ctgcaaaggg 120
ccatggcaaa ggccagcacc aatcaaatca accaagcgcc gatctcgtga tctcgtaggc 180
cacgaatgtc gcggcattgg ctggaacgct gcgtgccatg gcgggtccga accccttgta 240
caggcccttc accccatcag ccgccacgat ctctctcagc gcgtcgaggg acccgagta 300
cttgggcttc ttgtaatcgt ccacctggat cagctcttc accacgtccg tcgggtacac 360
ggacagccag aaggcggcgc cggcgaggcc gcccgccagg acctgggagc ccctgcc 417

<210> 7628

<211> 536

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-074-Q1-N6-F11

<400> 7628

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tcgggatgcc actgtccagg cgactaggag acgcagcgga gcgagtgcag ggacgccgag 180
gtgtccatgg acgcggcgctc atacatgcag cgggtctccg tcgcctcgat gccgtagtcc 240
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tgctccttgt ctatgtgggc ccaaacttac tcaagccggc tcatgtatcg cagcttctca 360
tacaacctg agctgaagag gaagcgcccg aagggtggcg agaagatcct ggactggagg 420
gccgggtgca cgaagtagac ggcgcgcagc ctctccttgg ccgcggccgg cagcgtctcg 480
tacgcgccgc ggatcgcacc gacgcgggn gaagttgtgg ccgcgatcca cgcggg 536

<210> 7629

<211> 541

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-F12

<400> 7629

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tttattattg aattacaact aataagcaat ctaaaagagg caccaccaat gatgtgttgt 120
tggtaggagg ccgctcgggc tgtcaaagca agttggacaa agggcaacaa ttgttgtagt 180
tgtaagaggg ttgcgggggt agccgcaaac tgctggtaga aaggcagcaa ctgttgctgt 240
gtcaagaagg aagcacgggt tgctgcagct agctggctaa atggtagtag tatttgctgc 300
tgcaaataag cagcgggggt cagtgcggcc aattgggtta atggaagaaa ttgttggtgc 360
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tgcagctgct gtgccctgat ggtttgtacc aatgactgca ccaaagatag ggctggcgat 480
tggtgaaaca acaagggtga taaaggatat ttgcttgctg cgattgcttg ttggagccta 540
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<210> 7630

<211> 503

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-F2

<400> 7630

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taaactagcg agctaggtag ctagtcagcg gctccattac attattacta cagtacatag 180
tttctcagt agtaaacacc gccggcagct gcgttgcaag ggcagggacc tggctgctgc 240
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cactgtggcg agccgtaggg cgtccccgcc gggctgcact ggtgcctcag gaactcgacg 480
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<210> 7631

<211> 540

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-F3

<400> 7631

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<210> 7632

<211> 501

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-F5

<400> 7632

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ctgcaaggca gggttcatca aaaaaaactg gttgtatggc agcaattgtt gttgctgctg 180
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<210> 7633

<211> 495
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-074-Q1-N6-F6

 <400> 7633

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cacgtttaac attttagctg ctaccaatc ctagctggat gcatgtataa caagcaactc   180
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tgatgttctt ctggaacttt gcggtcttcc tgtcagcaag gcgccttgaa gtagtcatgt   420
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<210> 7634
 <211> 509
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-074-Q1-N6-F8

 <400> 7634

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tccaaggaaa acagcttaac aaccacagca cccttaacca tacaagctaa atgattccca   180
gtacattttt tttatcttgg ggccatcctc tgcacagttt ggtcacacag tttagcagtt   240
ttgtttggcg cctcatcttt tgtgcagcct cgtctttttc aatatttggt cgtagcagcc   300
tcaacctttt caatatttgg tcatctatct agctttccat gtagtataat cgaggattgt   360
ggttgtaaaa agcgcagggt cttgggttac catacaaatc aggagcagta gaggcagaag   420
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<210> 7635
 <211> 546
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-F9

<400> 7635

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ttgttggttag gaggetgctg ggtttgtcaa agcaagttgg acaaagggca acaattgttg 180
tagttgtaag agggttgcgg ggtagccgc aaactgcttg tagaaaggca gcaactgttg 240
ctgtgtcaag aaggaagcac gacttgctgc agctagctcg ctaaatggca gtagtatttg 300
ctgctgcaaa taagcagcgg ggttcagtgc ggccaattgg ttaaattggaa gaagttgttg 360
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tgcctt 546
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<210> 7636
 <211> 535
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-G1

<400> 7636

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gccacctaga tcaaatcgaa ctccacaatg tgtgggtcca cttgaaccac ctgtttcttct 180
cctgtggggg tgtgagacaa caagggtgag ctcacacatg ttcacgctc aataagttgt 240
ggggaataat gtggcatgaa ctcatcaaag gtgggagttc atgtgatgta taaagctggt 300
caacaatagg ggttaaagct gagcattgct ttttaataagt tgggtcaaatt ttattagcag 360
ttactaaatg taagtgaata ccaaatcata ataaaataat agaacaaaat taataataaa 420
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tcccatgcaa tgcataatgac aaattgagtt taagtttcat aatttaataca tgcgagagtt 480
 ctgagctgct catgaccgtg agctcggtag tataaccagtt ttacactatg cagag 535

<210> 7637
 <211> 533
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-G10

<400> 7637

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 caacatcagg tgttgtaaac cacacaatac ttcataacag acacacataa cacgatagca 120
 ggagcaactc acggcagatc acgggataag ggcagcacac tggcctgatg ctgcgtcât 180
 agcaaacttc tctagtactc gtcaccctcg tcgccatcct cgccctcatc gaactcagcg 240
 ccgacctcct cgtagtcctt ctcgagcgcc gccaggctcct cacgggcctc agagaactca 300
 ccttctctcca taccctcacc gacgtaccag tgcacgaagg cacgcttggc gtacatgagg 360
 tcgaacttgt ggtcgatgcg ggagaacacc tccacgacac tgggtggagtt ggagatcatg 420
 cacacggcac gctgcacctt ggccaggctcg ccaccaggca caacgctagg aggctggtag 480
 ttgatgccgc acttgaagcc agtcggggcac caatccacga actggatggg gcg 533

<210> 7638
 <211> 560
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-074-Q1-N6-G11

<400> 7638

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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt ggaaatggaa 120
 tttttttttt ttgggggggg aaatacatta gggggggggg ggggggaaag aaaacaaaaa 180
 aaaagggggg ggaaaaaaag ggcccccaa aaaggggtgg ggggaaaaaa ggaaaaggga 240
 aaaaaaaaaa aaggcccccc caaaaagggg gggggggaag ggggaaaaag gggaaaaaaa 300
 aaaacgggga aggattaaaa aaaaaagggg ggggggaaaa aaagaggcaa aaagaggaag 360

ggggaaaagg aggaaaaaan agggggcggg aaaaaagcc caaaagagg gagggggata 420
aaagggggaa aaaaaaccgg gggccccacc cgggaaaata aggaggggaa ccggaaagca 480
aaccaggggc cccgaggggg ggccccgaaa aagggggggg gaaaaagggg gaaaaaact 540
tccccgggaa aaagggcacc 560

<210> 7639

<211> 72

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-G12

<400> 7639

gggtgttggg tttttcaacc agtaaaacag aattcggtcc gttccattct gtgttccgct 60
acaacagAAC ac 72

<210> 7640

<211> 550

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-074-Q1-N6-G2

<400> 7640

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tgagaggctt gacgtccacc ttgccgtgc gcaggaagtc gatgcacagt ggccagggtg 120
ccttgtaccg gaacacgccc accacgtcca cctcccgcgc cgccgccgcc gtcaggggca 180
gogtcatctc gttgtggccc atcccgacca ggcacacctt cccgccgggc cgcgtcgcct 240
ccagcgccgt cgacatggtc ttgctgaacc cggcgcagtc caggctgacg tcgatgtccg 300
agcccatggc cgcgcggatg cgctccacct cgtccgccag gtcctccgcg cggggcgaca 360
cccgaccgc cgcgtccgcg cccagcgacc tggccacggc caggcggtgc tcgtccacgt 420
ccacgaccac cacgcgcggc gcgccgaagg cccgcgcgc cagcagcgac accaggccga 480
tggggccggc gccaccacg agcacgcccg tcttgggccc caccgccgcg cggcggcacg 540
cgtgcacgcc 550

<210> 7641
 <211> 523
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-074-Q1-N6-G3

 <400> 7641

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 tattgaacta taachnataag aaactaaaag aggcaccacc aatgatgggt tgttggtaga 120
 acgctgctgg gtttgcataa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
 ggggtgccagc gttaggcgca gcgtgctggt agaacggcaa caactgtggt tgtatcaaga 240
 aggttagcagg gctcacacca gctagctggc tgaatggtag tagttgttgc tgctgtaaat 300
 aagcaggaga gttcaatgct gccagttggt tgaatggaag aaattgctgg gggtaggcag 360
 caggtagctg gctgaatggt agttgttgtt gttgcaata agaagcagag ttcaatgcag 420
 ctagttggtt gaatggaaga aactgctgtt gctgagagta ggcagcaagg tttgctagca 480
 caagttgttg tagttgttgc gccctgatgt tttgtgcaa taa 523

<210> 7642
 <211> 530
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-074-Q1-N6-G4

 <400> 7642

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 atttgtccca aatccaggat aaatcacatc gaatcgatac acagatcaat tcaccgcaca 120
 agccgaaaag aaccaacacc taccctagat acgctgctcc atctacacag ccgacgacat 180
 tgcagtttca gcagcgcgag tcaactcgacg ccctcggtgg atctctgcac cagcacaacg 240
 cccagggtga tggcggaggc gtagagcgcg ttgggcacct tgcgtaccac cttgcccacg 300
 ccggggagcg cctccgctgc ccgcttggtc gccatcgcca gcgcgggcgc cgccaccagc 360
 gtgatcagca gcttcacgct gatcgagcac agcgagtcgg cggtcagctt ccggatgaac 420
 tccgcgaact cctcgcggtc caggagcccg tccaggttca cgctgtactc ctccatcatg 480

gccctgagct tctccttggg cgggggggtcg tgggtgtggcc ccggcaagta

530

<210> 7643

<211> 495

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-G5

<400> 7643

aaaaccaaaa ctttattatg atgcatatat tattgggtcat accacacatg ataatgggtg 60
tcgtcttact gcattattac atatatagat agagagggat ggatagagga gatttcccaa 120
atatcatgaa tcagtagtag ggcggaatgg cagcggaaac cccacagggg ttggtgcggt 180
agctgggcag ctggtactgg tactggtaga gtccacccat ggccggcatg ttctgcgcca 240
tcatcatggc catggggttg aaaccctggg ctgccagcag ctgctgctgc tgctgcataa 300
aaactggctc gtacaggctg ctgctggcgg cagcggcacc ctcaagctgc attattattt 360
gcagctgctg cgcgacggac tgcacgtcca tcatcctcat ctgctgctgg cagcactgtt 420
gccggagcgg ctggtacatg gcgctcgtct gccacacccc ggcgtagtag ggcgcccggc 480
ccagcggggt gcact 495

<210> 7644

<211> 532

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-G6

<400> 7644

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atcgagtaca tctcatatgt aatctaaaag atggcaccac caacgatggg ttgctgccac 120
gacaaggcag ggttcatcaa agagaactgg ttgtatggca gcaattgttg ctgctgtagg 180
aaggcagcga ccaatgggtt agccaccgct agtggattaa gtaactgttg tcgctgttgt 240
aggtacgcag cagagttcga cacagtcagt tggttgaatg gaagtagttg ttgcaagtag 300
gcagcagggt ttgccacagc tagctgagta agagctggta caatttggtg cagcaactgt 360
tgttgcaaca actgttggtg caggtatgta ggtgcattgc ccatagcgag cgggctagat 420

gaaagaagtt gttgctgttg taggtaggcg ataggggttca ccatggctag ttgactgagc 480
gctggcagaa actgttgcaa ctgttggttg tggttggtatg cagctacgtt tg 532

<210> 7645
<211> 533
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-G7

<400> 7645

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caccaatgat gggttgttgg tagaactctg ctggggttgt caaagcaagt tggttgaatg 120
gcagcaattg ttgcagttgt aagaggggtgc cagcgtagg cgcaacgtgc tggtagaacg 180
gcaacaactg tggttgtgtc aagaaggtag cagggtcac accagctagc tggctgaatg 240
gtagtagttg ttgctgctgt aaataagcag gagagttcaa tgctgctagt tggttgaatg 300
gaagaaattg ctgggggtag gcagcaggta gctggctgaa tggtagtgtg tggtgttgca 360
aataagaagc agagttcaat gaacctagtt ggttgaatgg aagaaactgc tgttgctgag 420
agtaggcagc aaggtttgct agcacaagtt gttgtagttg ttgtgccctg atgtttgtg 480
ccaataaatg caccaaaggt aactgttgta atagggctga tgattgttgg agg 533

<210> 7646
<211> 526
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-G9

<400> 7646

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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt tttttttttt tcaaaaaaaaa aaattttttt gggacctaaa ccaaaaaaaaa 180
aaaaaaaaaga gggggccccc ccaagggggg ggggggggga aaacccgggg gggtttgaaa 240
aaaaagggggg gggaaagggg aggggccccg ggggcccccc cggaaattcc ggccggggcc 300
cgggggggga cccaattttc ctaaaagggg ggggaaaaaa agggggggga aaaaagggga 360

aaaggggttc ccgggggaaa aagggtttccc cttaaaaatc ccaaaaaaaaa aaagggggggg 420
aagaaaaaag ggaaaacccg ggggggccaa aggggggggc caccccaat aaatggggggg 480
ggcccaacgg ccccttttca aagggggaaaa ccgggggggc cccggg 526

<210> 7647

<211> 524

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-H10

<400> 7647

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ccattatcga gtacatctca tatgtaatct aaaagaggca cctccaacga tgggttgctg 120
ccacaacagg ggggggttca tcaaagagaa ctggttgat ggcagcaatt gttgctgctg 180
taggaaggca gcgaccaatg ggtagccac cgctagtga ttaagtaact gttgtcgctg 240
ttgtaggtac gcagcagagt tcgacacagt cagttgggtg aatggaagca gctgttgcaa 300
gtaggcagca gggtttgcca cagctagctg agtcagagct ggtacaatct gttgcagcaa 360
ctgttggtgc aggtatgtag gtgcattaac cacagcgagg agggctagat gaaatcagtt 420
gttgctgttg taggtaggcg gcagggttca ccatggctag ttgactgagc gctggtaaaa 480
actgttgcaa ttgttggtgt tgttggtatg caactatggt tgcc 524

<210> 7648

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-H11

<400> 7648

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actccctgtc cttttttaag cctttatctt tcttatcctt ggcccggggg gggggggacc 120
acactttgga tacatctgcc ttaggtatcc ctctaaaacc ctgttgccagg ggtagtaa 180
agccccctg tcctaactaa ctctccctc cagcggcggg tgctgctgac aaccccaggg 240
cacagcctaa ctccagagcg gaatggcctc ctgtagccc ctgaccatag ctccccatgg 300

cggcgcaccg gcactcgcgg atcacgtcct aaagctgctg gcagcaacaa atccggagcc 360
 caaaacccca ccggaacggg ccggcgacgc cgccgccggt tagctacca acgaggacct 420
 gacggcacgc gtcgagcgaa ctataaaaaa cctcctggca gcactgcaag tccctgagcc 480

<210> 7649

<211> 520

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-074-Q1-N6-H2

<400> 7649

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 cgcgcgctcc acgccgcgcg ccatggtctc cagccgctcc cgcgcgctcg gtaggtacgc 120
 ctggaccgtg ccgtgcacga tggagcgctc ggcgttgac gccagcgcg cgcgagcggt 180
 gaggtagtcg atcgccggct gcaccgccgc gtactccgcg tccaccagca gcggcacgcc 240
 gcgctccgcg caccgcgcgc acaccgccag caccgcgctc tgcgccagct ccagctccct 300
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 cgacaggatc gggaagtcgt gcgtcttcca cggcagggtc agcgacgggt gcctcttctg 420
 ccaccgcagc aggtcgctcg ctttctccag cagcgcgatc gggcacagcg ccgtgatctt 480
 gatgcacacg ctgcgccagc ccggaggcag cttggcgggc 520

<210> 7650

<211> 517

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-H3

<400> 7650

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 acaaggcagg gttcatcaaa gagaatggct gtatggtagc aattggtgct gctgtaggaa 180
 ggcagtgacc aatggggttag gcactgctag tggattaagt aactggtgct gctggttag 240

gtacgcagca gagttcgaca cagtcagttg gttgaatgga agcagctgtt gcaagtaggc 300
 agcaggggtt gccacagcta gctgagtcag agctggtaca atctgttgca gcaattgttg 360
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 ttgtaggtag gcggcagggt tcaecatggc tagttgactg agcgctggca gaaactgttg 480
 caattgttgt tgttgttggt atgcagctac gtttgcc 517

<210> 7651

<211> 498

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-H4

<400> 7651

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 cacataggtc gatgacccgc gcacacacat tcatcgacaa aacaagcccc aaaacccaaa 120
 cgccggcctag tagctgatag gcggattggt taggatctct ctctctctcg ctttgacgac 180
 acggatcaaa accttatggt tgctgctcga ctgaatcagt tccttgagggt ggggctccca 240
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 ttgtactcgt cgctccacc tttcgaatat ccccgccctc caccactgaa acggccacgt 360
 cctccccctc ttccaccttt tattccgcta tttgggttcc tctcctcaac atatatctgc 420
 cgcccattha tttcaattgg tgaagccttt aacgcattgt gtacaccgct gagttcctcg 480
 aattccacga aagcataa 498

<210> 7652

<211> 524

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-H5

<400> 7652

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 tataactcat aagcaatcta aaagaggcac cgccaatgat gggttgttgg tagaacgttg 120
 ttgggtttgt caaagcaagt tggttgaatg gcagcaattg ttgcagttgt aagaggggtgc 180

cagcgttagg cgcagcgtgc aggtagaacg gcaacaactg ttgttgtgtc aagaaggcaa 240
cagggctcac atcagctagc tggctgaatg gtggtagctg ttgctgttgt aaataagcag 300
cagagttcaa tgctgccagt tggttgaatg gaagaaattg ctgggggtag gcagcagcta 360
gctgactgaa tggtagttgt tgttgcaaat aagcagcaga gttcaatgca gccagttggt 420
tgaatggaag aaactgctgt tgctgagagt aggcagcaag gtttcctagc acaagttggt 480
gtagttgttg tgccttgatg ttttgtgcc acaaatgcac caaa 524

<210> 7653

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-H6

<400> 7653

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actataactc ataaaaaacc tagcagggtt ctaccaacaa cccatcccgg gaattcc 117

<210> 7654

<211> 535

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-H7

<400> 7654

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atcgagtaca tctcatatgt aatctaaaag atggcacctc caacgatggg ttgctgcctc 120
gacaagacag gattcatcaa agagaactgg ttgtatggca gcaattgttg ctgctgtagg 180
aaggcggcga ccaatggggt agccactacc aatggattaa gtaactgttg tcgctgttgt 240
aggtacgcag cagagttcga cagagtcagt tggttgaatg gaagcagctg ttgcaagtag 300
gcaacagggt ttgccacagc tagttgagtc agagctggta caatctgttg caacaattgt 360
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tgttgtacgt aggcggcagg gttcaccatg gctagttgac tgagcggttg cagaaactgt 480
tgtagctggt gttgttgctg gtttgcaact acgttcgcca gagcaagtgg gttgg 535

<210> 7655
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-074-Q1-N6-H9

<400> 7655

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ttgctgccac aacaaggcag gggtcatcaa agagaactgg ttgtatggca gcaattgttg 180
ctgctgtagg aaggcagcga ccaatgggtt agccaccgct agtggattaa gtaactgttg 240
tcgctgttgt aggtg 255

<210> 7656
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-A1

<400> 7656

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aagcattcat gggggggggg ggggtattat tcaaacaaag gagctagcta caaggccatt 120
cctaaggcac tagggtcttc ggaggtactg ggggggggatt gttccgccgc cgggaaacca 180
ggggcattgg gggaccccg gggggggggg cagggggaac tcggcctccg ggacgggggg 240
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cagttggggg tccgggcccc ggggggatcg gccgtccatg ggggggggtaa gggccgggca 360
ccgggagtag cccgggatgg tcgacagttc ccgggagaat tttcttttaa gatccggcca 420
gggggggggg gggccgaagc cgaaggtccg gctggaaacc aaccaac 467

<210> 7657
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-A10

<400> 7657

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aacgcttaca ggaacttatt aacaaacacc aggggggggg cttaatcggg gacaaaggaa 180
tttgcacggt ggggaagggt aacggccctc caaaggggcc ttaaaaaggg gaaccagctt 240
caggagagccc gctcccgga aaccccgagg gccacctccg agggggcggg cgcctggatt 300
tcgaagggga acccggaag ctctacttg aggggggcct tcgacggggg ggacagaatt 360
ttaacacgta tgcgggatgt cgagggggac caggcaaaga aaaaaattg gttttttgga 420
aattctcccc gggaacaaaa tcaaatcat acagggca 458

<210> 7658

<211> 524

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-A11

<400> 7658

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gtcacactg ccacccatgg tgatgggtga cactccgtta ctcatcgccg ctaaacgagt 120
gaactagcta tagccctata ggtagctagt cagcggctcc attacattat tactacagta 180
catagtttcc tcagtagtag acaccgccgg cagctgcgtt gcaagggcag ggacctggct 240
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ccgcgagctc gccctgcggc tgctgctgca ggaaggactg caggaccaca ccgtatgtcg 360
cctgggtaccg gtgcagcggc tccacctgcc tgatctggtg gcagcactgc tgctgcagcg 420
cctggcactg tggcgagccg tagggcgctc cgcgggggt gcactggtgc ctgaggaact 480
cgacgcactg gccaggaac gggctgccga cgctgccgac gccg 524

<210> 7659

<211> 533

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-A12

<400> 7659

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ccaaggaagg acaaccaaga agctaaggcc tggtttatta ttaactggaa acataaataa 180
aaaagtaggg tttgtttatt gcatttggtg tgtatcacc aactgtcggg gtcattggcg 240
cgggtgtcaac gaagatacgg acgcggtcgg ggcgagggtc cagcgtcacg ggcgacccaa 300
caggcagcac ctggatgtac gcgttgggca tgccttgag aatgggtctcc gtcgcctcct 360
tgatggacat gcccatcacc tccggccacg acgtcttctt ctgctgctg ctggtagcag 420
cagcatccac gacgacggaa ctcatcatct ccgatccgac aacgatgggt tttgttatgc 480
agtcaacaat ctagctacat gcacaaatat acagaggagg agcggaatca gtt 533

<210> 7660

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-A2

<400> 7660

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ccccactctc tggccccaga cccaatatac caacaaacca catacttacc cagcaacaac 120
caggtcacat tctaaccgac ccaactgaaca acagtttcca aggaacccaa ttattacca 180
aaaaaagggc caaaaaaaaa atgaaacaat aataataata ataccggacc cccctaaaac 240
ggacactacc ggacccccct aaaacggaca ccggaccaga aacctaataa acccaccct 300
cgaccaccaa aacgggatga aagaaagaaa aggcaggccc ccgctgcgct caatgcgacc 360
acaccttgta aacacaccgg gggaacttt tgattacaat ataccaacaa atgaaggggt 420
atgaacaaaa cccaggcata aatggc 446

<210> 7661

<211> 543

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-A3

<400> 7661

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ctgctgggtt tgtcaaagca agttggttga atggcagcaa ttgttgagcag tgtaagaggg 180
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caggagagtt caatgctgcc agttggttga atggaagaaa ttgctggggg taggcagcag 360
gtagctggct gaatggtagt tgttgttgtt gcaaataaga agcagagttc aatgcagcta 420
gttggttgaa tggaagaaac tgctgttgc gagagtaggc agcaagggtt gctagcaca 480
gttgtttag ttgttggtcc ctgatgtttt gtgccaataa atgcaccâaa ggtaactgat 540
gta 543

<210> 7662

<211> 527

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-A5

<400> 7662

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gctgctgggt ttgtcaaagc aagttggttg aatggcagca attgttgagc ttgtaagagg 180
gtgccagcgt taggcgcagc gtgctggtag aacggcaaca actgtggttg tatcaagaag 240
gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
gcaggagact tcaatgctgc cagttggttg aatggaagaa attgctgggg gtaggcagca 360
ggtagctggc tgaatggtag ttgttgttgt tgcaaataag aagcagagtt caatgcagct 420
agttggttga atggaagaaa ctgctgttgc tgagagtagg cagcaagggt tgctagcaca 480
agttgttgta gttgttgc cctgatgttt tgtgccaata aatgcac 527

<210> 7663

<211> 539

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-A6

<400> 7663

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tttttttttt ttttaaaaaa aaaacccccca tttgatcctt ggaaagaagg gagggccccc 180
ccaaaacccc tgggtttttt aaaaaaaaaa aaaaccccaa aaaaaggggg ggggggaaaa 240
aaaggggggg aaaggggggtc ccacggaaaa aaggggggtcc ggaaaaaac ttgggggggtt 300
ccgggttacc caaaaaaac aaaaaataaa agccccctat aaaaaaaccc caaaaagggg 360
gggaaccagg ggcccaactt ttttaaccca aagaaaaaac ccccccccc taggggggaa 420
aaaaaacctt ttttttggg aaaggggaac cttttttgcc cggggcaaag gggagggggg 480
tctaaaaaaa aaaactttgg gggggggcca aaaagggaaa aaaatttttg ggggttccc 539

<210> 7664

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-A8

<400> 7664

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aatgatgggt tgtgggtaga acgctgctgg gtttgccaaa gcaagtgggt tgaagggcag 120
caattgttgc agttgtaaaa gggggccagc gttaggcgca gcgtgctgggt aaaacggcaa 180
caactgggggt tgtatcaaaa agggagcagg gctcacacca gctagctggc tgaatggtag 240
tagttgttgc tgctgtaaat aagcaggaga gttcaatgct gccagttgggt tgaatggaaa 300
aaattgctgg gggtaggcaa caggtacctg gctgaatgggt agttgttgtt gttgcaaata 360
aaaagcaaag ttcaatgcac ctagttgggt gaatggaaaa aactgctggt gctgaaagta 420
ggcaacaagg tttgctagca caagttgttg aagttgttgg gcc 463

<210> 7665

<211> 514

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-B1

<400> 7665

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tataactcat aagaaatcta aaagagggca ccaccaatga tgggttggtg gtagaacgct 120
gctgggtttg tcaaagcaag ttggttgaat ggcagcaatt gttgcagttg taagaggggtg 180
ccagcgtag gcgcagcgtg ctggtagaac ggcaacaact gtggttgat caagaaggta 240
gcagggctca caccagctag ctggctgaat ggtagtagtt gttgctgctg taaataagca 300
ggagagttca atgctgccag ttggttgaat ggaagaaatt gctgggggta ggcagcaggt 360
agctggctga atggtagttg ttgttgttgc aaataagaag cagagttcaa tgcagctagt 420
tggttgaatg gaagaaactg ctgttgcgtg gagtaggcag caaggtttgc tagcacaagt 480
tggttagtt gttgtgccct gatgttttgt gccca 514

<210> 7666

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-B12

<400> 7666

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acgtacaaac agacacagga caggcagcgc ttgccactag caacagagcg gcgactgcct 120
ttgttatggc atacacggga tataactcaa cgggggaacc caaatcaatt caaacgctgc 180
acctaattat cttcgactag cagtttatac taacataaaa ccatcggttg gacgcaatgc 240
aacaacaat aacagcttgt ttcttttttc tgctcgag 278

<210> 7667

<211> 494

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-B2

<400> 7667

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ggccgctggg tctgtcaaag caagttggac aaagggcaac aattgttgta gttgtaaaaag 180
ggttgcgggg ttagccgcaa actgctggta aaaaggcagc aactgttgct gtgtcaaaaa 240
ggaagcacgg tttgctgcag ctagctggct aaatggtagt agtatttgct gctgcaaata 300
agcagcgggg ttcagtgcgg ccaattgggt aaatggaaaa agttgttggt gctgaaagta 360
ggcagtagct agctggctaa atggtaatat ttgttgctgc aaataagcaa cagggttcag 420
tgtaaacagt tggttgaatg gaaaaaattg ttgttgctga aagtagggaa aaaggtttgc 480
caaaactact tgggt 494

<210> 7668
<211> 533
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-075-Q1-N6-B3
<400> 7668

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atctaaaaga gggcaccacc aatgatgtgt tgttggttagg aggctgctgg gtttgtcaaa 180
gcaagttgga caaagggcaa caattgttgt agttgtaaga gggttgctgg gtttagccgca 240
aactgcttgt agaaaggcag caactgttgc tgtgtcaaga aggaagcacg acttgctgca 300
gctagctcgc taaatggcag tagtatttgc tgctgcaaata aagcagcggg gttcagtgcg 360
gccaattggg taaatggaag aagttgttgt tgctgagagt aggcagtagc tagctggcta 420
aatggtaata gttgttgctg caaataagca gcagggttca gtgtagacag ttggttgaat 480
ggaagaaatt gttgttgctg agagtaggga gaaaggtttg ccagagctac ttg 533

<210> 7669
<211> 528
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-075-Q1-N6-B4

<400> 7669

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taaaagaggg caccaccaat gatgggttgt tggtagaaca ctgctgggtt tgtcaaagca 120
agttgggtga atggcagcaa ttgttgcagt tgtaagaggg tgccagcggt aggcgcaacg 180
tgctggtaga acggcaacaa ctgtgggttgt gtcaagaagg tagcagggtt cacaccagct 240
agctggctga atggtagtag ttgttgcctgc tgtaataag caggagagtt caatgetgct 300
agttgggtga atggaagaaa ttgctggggg taggcagcag gtagctggct gaatggtagt 360
tggtgtgtgt gcaaataaga agcagagttc aatgaacctt gttggttgaa tggaagaaac 420
tgctgttgct gagagtaggc agcaagggtt gctagcacia gttgtttagt ttgttgtgcc 480
ctgatgtttt gtgccaataa atgcacacaa ggtaactgtt gtaatagg 528

<210> 7670

<211> 511

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-B5

<400> 7670

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atgctagggt ctaacaaatt tgatcatttg acaccatttt cacagagtgc acttggcctt 120
ccctctggat cctacacagc aaaatacatg cctagctggg taccacaaa taaaaataac 180
caacaacttt aaaacttcgg cagaagccac ccaagagtcc agccaagaag aaaccagct 240
ccagcaagac ccaacccaac agcaaataag atcggtcga agaaccggc tgccttcttc 300
tgccttctac ctttctctct agtccaatct ctctgccctt gaccctgtgt aggcttctct 360
tttaggggta accatggaag ttcaggatat atggctgcta tctgatgctc tttgttcttg 420
agctgcagga caatattctc cagctgcatt attttcagcc actgggtgca cgcaaagaga 480
tgtgaggcct gtcggagcaa aagcttgatg a 511

<210> 7671

<211> 548

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-075-Q1-N6-B7

<400> 7671

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tgagaggctt gacgtccacc ttgccgtgc gcaggaagtc gatgcacagt ggccagggtgt 120
ccttgtaccg gaacacgccc accacgtcca cctcccgcgc cgccgccgcc gtcaggggca 180
gcgtcatctc gttgtggccc atcccgacca ggcacacctt cccgccgggc cgcgtcgcct 240
ccagcgccgt cgacatggtc ttgctgaacc cggcgcagtc caggctgacg tcgatgtccg 300
agcccatggc cgcgcggatg cgctccacct cgtccgccag gtctccgcg cggggcgaca 360
cccgcaccgc cgcgtccgcg ccagcgacc tggccacggc caggcggtgc tcgtccacgt 420
ccacgaccac cagcgcgggc gcgccgaagg cccgcgccgc cagcagcgac accaggccga 480
tggggccggc gccaccacg agcacgccg tcttggggcc cccccgcg cggcggcacg 540
cgtgcacc 548

<210> 7672

<211> 137

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-B9

<400> 7672

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caatgatggg ttgttggtag aacactgctg ggtttgtcaa agcaagttgg tcgaatggca 120
gcaattgttg cagttgt 137

<210> 7673

<211> 518

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-C1

<400> 7673

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agatgcacat acccccacgc taacaagaaa atcagctata gccaaagttaa ggttccacag 120
 ctactaatca aaaaccaaag aaaccaagct cagtcgccct ttcctttctca aaggtttcga 180
 agtattggta tatgattgtc acagcgagca atataccagt tcctgaacca atcgcaccca 240
 tgaaatcagc caggacggtc aatgcgccaa tgcatacacc accaaatgca gcggcagtgg 300
 ggatgtatcg gttaagttcc ttctgcaagt tcgactcacg atggcctggc atcaccatth 360
 gttgttctct gagctgctta gcaacatcct ttgctgatga accagaaact tcaatccatg 420
 tctttgagaa cagagcacag gctgacagca tgaagaccac ataaaacagt gcatggaatg 480
 gatttgcaag gacatcagcc aaacttgatg gggcagtt 518

<210> 7674
 <211> 520
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-075-Q1-N6-C10

 <400> 7674

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 ctgctgggtt tgtcaaagca agttggttga atggcagcaa ttgttgctgc tgtaagaggg 180
 tgccagcggt aggcgcagcg tgctggtaga acggcaacaa ctgtgggttgt atcaagaagg 240
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 caggagagtt caatgctgcc agttggttga atggaagaaa ttgctggggg taggcagcag 360
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 gttggttgaa tggaagaaac tgctgttgct gagagtaggc agcaagggtt gctagcacia 480
 gttgtttagt ttgttgtgcc ctgatgtttt gtgccaataa 520

<210> 7675
 <211> 545
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-075-Q1-N6-C11

 <400> 7675

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catataaaac aaactgcagc aaaaagccct agggggggggg tgagcaaaac tcgattctac 180
aagtggattc atgggggaaa aaagtgaagc taggggtaac ttcctcaggt gagcccttga 240
gttttattct cagactagcg ctcaactact tcaagactgg acgctagcaa atcgttccat 300
gtgtcagttg gtcttgcaa acaccaatgc atgcaatcat cgtgcttttt gccgccagtt 360
gttgaagggt gagcatccgc tctgaattca ctcatgcgag tgatgtccag aactctaaaa 420
ctagactgct gttcaagagc cttcaccagg tgttggttta ccaagcgtgc ctctacgttg 480
gtgctgttat tgtccaaaga gaaaaattct cccacctctt ctgacgacaa gggctggtta 540
cgttc 545

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<210>      7676
<211>      470
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3061-075-Q1-N6-C2

<400>      7676

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gacaagacag gattcatcaa aaaaaactgg ttgtatggca acaattgttg ctgctgtagg 180
aaggcggcca ccaatggggt acccactacc aatggattaa gtaactgttg cccctgttgt 240
aggccccaa caaagttcga cagaatcagt tggttgaatg gaagcagctg ttgcaagtag 300
gcaacagggt ttgccacagc tagttgagtc aaagctggta caatctgttg caacaattgt 360
tgttgcaggt atgtaggtgc attgccaca gcgagcgggc taaataaaag caattgttgt 420
tgttgtacct aggcggcagg gttcaccatg gctagttgac tgaaccttgg 470

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<210>      7677
<211>      545
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3061-075-Q1-N6-C3

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<400> 7677

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aatgagaatt gacaacgaga catgaaccaa attaaaagag cccagttaac ggcggccgtc 180
gcactcgcac ccaaagatg aaatttgagt agcacgcagc aatacgtagg gggcagggca 240
gggcacttgt ttggtcacaa actcatcaca cctcgacgct gcacacctgt ggctgggcga 300
acttgagcga cgacacgggtg ttgttgacgc cggggtagcc cgcgagagc acggcggggc 360
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cgtccacctt gacctgcagc gcgacgaagc ccgcgggcgc gtacctgttc atggcgtcgg 480
cgacgtaggc ggcaacgggc acggactcgg ccgacagcac gggggaccag acggtgaagt 540
cgcggg 545

<210> 7678

<211> 520

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-C5

<400> 7678

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cctcgacaag acagggttta tcaaagagaa ctggttgtat ggcagcaatt gttgctgctg 180
taggaaggca gcgaccaatg ggtagccac tgctagtggg ttaagtaact gttgtcgctg 240
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ttgttggttc aggtatgtag gtgcattggc cacagcgagc gggctagatg aaagcagttg 420
ttgctgttgt aggtaggcgg cagggttcac catggctagt tgactgagcg ctggcagaaa 480
ctgttgccagc tgttggtgtg gctgggttgc aactacgttt 520

<210> 7679

<211> 527

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-C6

<400> 7679

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actcatcgcc gctaaacgag tgaactagct atagccctat aggtagctag tcagcgggctc 120
cattacatta ttactacagt acatagtttc ctcatgtagta gacaccgccg gcagctgcgt 180
tgcaagggca gggacctggc tgctgcagct gcagaccgca catcgccgctc agctgctgcg 240
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tgcactggtg cctcaggaac tcgacgcact ggcccaggaa cgggctgccg acgctgccga 480
cgccgcagga tccgaactgc tggcacgggc ttagctgcgg tggttga 527

<210> 7680

<211> 524

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-075-Q1-N6-C7

<400> 7680

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ccaagtaccc aacgcagcgc tccagcacca gctactgctc ctcttgagag cccaagcaca 180
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cggagcggtc gctgcgggac cgccggcggc gacggcgggc gcagcttctc ggccttgatg 420
gcgagggcga tcccgccgaa gcagtagccg tagctgcaga tgaagtagta ggtcttggtc 480
tcgttgagct ggaaggcgaa gctgcgcccc ttgctgtagt tgta 524

<210> 7681
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-C8

<400> 7681

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aaaaaaaaa attttttttg ggaccaaaac caaaaaaaaaa ataaaagggg gggccccccc 60
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aattgggggc agggaaaagg ggggcccggg ttggggccca ggggggggaa aaaaggaaaa 180
aacggggggg ggaaaaaaaa gggggggggg ccaaaaccaa cttggggggg aaaaggaaaa 240
aagggggggg ggttaaaaaa aacggggaaa tccaacggcc cccaggggga aaaaggaaaa 300
aaatgggggg gggggggaaa aaggaaccgg gtaaaaggga attgggggtg gtcaaaaaaa 360
aaaaaaaagt tcaaggcccc ttggggggga aaaggaaaaa aaccctttt 409

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<210> 7682
 <211> 526
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-C9

<400> 7682

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tgaactagct atagccctat aggtagctag tcagcggctc cattacatta ttactacagt 180
acatagtttc ctcatgtaga gacaccgccg gcagctgcgt tgcaagggca gggacctggc 240
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gccgcgagct cgccctgcgg ctgctgctgc aggaaggact gcaggaccac accgtatgtc 360
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gcctggcact gtggcgagcc gtagggcgct gccgccgggc tgcaactggtg cctcaggaac 480
tcgacgcact ggcccaggaa cgggctgccg acgctgccga cgccgc 526

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<210> 7683
 <211> 515

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-D1

<400> 7683

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acatccttga gctgacaata caagatggta ggtagatata cgtcccaaac tcaattcagt 180
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taatgacgtc tgctcgaggg accaaccagc atgagtcact ggtcacttat acaggtcggt 300
caatcttgag attcctccaa gggttccttc tccctctgct gttccaatgc aatctcagcc 360
aacgctttct gcgtgcgcct ttccagttta tcaattctct tctgcacatc acgtttcaga 420
tcccaatttg gattctttgg tgctatgttt ccaaaaagtt ctccacttcc tttggctctg 480
cagtttcggc actaattggg tcttcaaact tggga 515

<210> 7684
<211> 501
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-D10

<400> 7684

aggaaagcga aaaacgaaac tctatgttta attgacacct tggaggtctt aaatatatag 60
agaggacaac gcagcgagat gcatgggctt tccagcatcg attaaagtat cagaacctta 120
ttgtagcatg catgcatgca tctgccggtt ttggaagaag gtttttcctc acatcgacag 180
ccccacacat gccgcgcagc aacgagtacc ccgctatcac tccactggag catagacgac 240
acatgttctg cttgggtgat aaaccgagaa tgaatatggc ctattatcat gcgaacagtc 300
ggcgggtgaag tgctcggctg cgtgatggat cctgctaaat ccaccaaata gtccagcgtc 360
ggagtccaag accaccttat acacccagc ctttcgacaa ccaatacggg agtcaaaata 420
gctgttggtg cagtgggaagt tgaacacaaa taccaaactc cccttttcga acacaatcac 480
cttatacctc tcatgtttcc g 501

<210> 7685
<211> 517
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-D11

<400> 7685

gacacacaac aagcaagagc cgatcgaaac tggtacacag gcgctacacc aagtaggtaa 60
aaacaagttt gcggctgcct gccgccatac catgccatac tcttgccgg tatagctgca 120
gcagattgta tacaaggggg aaaaaagaag atacacatac agtactgaag aaggcaaattg 180
aatgccgtt cgggcggtag cctaggcgtg tacagctgac gcagacagac cccgcctcgc 240
ggtagcctag gcgtgtacag ctgacgcgca gacagacccc gcctcgccgc acttaaaagc 300
ttccttcctt gacctcgagg gtacacaggc ctattgtccg agcaatttgg aatcacatgc 360
cacaatcttc accttgccca cctgctccgt ggcctcctca ttcttgaagc ttgcgtctgt 420
caagatgaag gtccacacgt tgtcacagaa cctgtaggtg tgcaggtgac ccttgacagt 480
aaccttgctc ttcacttggg tctccagagc atccgtc 517

<210> 7686
<211> 512
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-D2

<400> 7686

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tagcgagtat taaaaatcca tgagccaata cttgaaacta ctaattaaac tccttttgca 120
ggtctcaatt cgcccatata tgcatacagt ttgttctgat acgacggcac catatacaca 180
tgatcttgta aaataatagg gcaactgact agtctgatca acctcagctc agcagattta 240
ttttcaattt tcaccgagca gatcgctcact ccacatgcc a gatcttatta ctaatatgag 300
ctggccagtt gtcaccccaa gtgggtgatg attcagggtc caattgtgcc tgtatcgaag 360
tagagtgtcg tcccagaaga cccaccggca acaccctcca tgagcgcgaa ccgcatgtcc 420
tcagatggct tccaatgcct ctctctctgg ttgatgaacc agttgttgat ctgcttcggg 480
tcgagaccgg tcattgctgc gagcctcacc tt 512

<210> 7687
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-D3

<400> 7687

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tgaagtcaaa agtacgcgga caagtctaca tttctatcct tttttttggt agcaactata 120
atctacagtt cctccaacgg agatgcagat tatagttgca tctccgttgg aggaactgta 180
agtttacagc aatattgtag agggcaagtt catcgtagac ttcctc 226

<210> 7688
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-D4

<400> 7688

cggagggcaa aaagatttgc agatggtggg ccgctaaaat cagctcaggg gcgtcccagg 60
taacaagcgg tttgtccccg gccctagact actaaacgaa gggcccaagc taactgcggc 120
ccccaattct gcatgttgcc ccaggattgt atgacctggt ctaaacaatga ggccctcctc 180
cagtcttgct aaaaccaagc tgcaggcctg cagctcacct gataaaaact ctgggcagct 240
tcaaaacttc ggccctgaa gttgcaatca aacagggtct tcaactgcttc acgtttatca 300
atcatgtcat ggaaccctgt caggtctaaa aaaggggact ggcaaccccc ttgaagtaga 360
ccaaggctcg ctatctcttc ctcatctctc gaacagagtc atatatcggc cggaacaaaa 420
tggggggaaa tgtatctctc tccaaagctg gggaaaaa 457

<210> 7689
<211> 536
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-D6

<400> 7689

cattaaaaacc aaaactttat tatgaccatg catatattat tggcatacc acacatgata 60
 atgtgtgtcg tcttactgca ttattacata tatagataga gagagatgga tagaggagat 120
 ttcccaaata tcatgaatca gtagtagggc ggaatggcag cggagacgcc acaggggttg 180
 gtgcggtagc tgggcagctg gtactggtag agtccacca tggccggcat gttctgcgcc 240
 atcatcatgg ccatgggggtt gagaccctgg gctgccagca gctgctgctg ctgctgcac 300
 agagctggct cgtacaggct gctgctggcg gcagcggcac gctcaagctg catcatcatc 360
 tgcagctgct gcgcgacgga ctgcacgtcc atcatcctca tctgctgctg gcagcactgt 420
 tgccggagcg gctggaacat ggcgtcggc tgccacacc cggcgtagta ggcgcgcc 480
 gccagcgggc tgcactgcgg ctgcctcagg tactccgct aggggtacag cccgcc 536

<210> 7690

<211> 501

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-D7

<400> 7690

ggagaaaatg tcaatcaata tattgattat ttctaggaaa cacatgccgg tatgagggca 60
 ccattatcga ttacatctca tatgtaatct aaaaaggca cctccaacga tgggttgctg 120
 ccacgacaag gcagggttca tcaaagagaa ctggctgtat ggtagcaatt gttgctgctg 180
 taggaaggca gtgaccaatg ggtaggcac tgctagtga ttaagtaact gttgtcgctg 240
 ttgtaggtac gcagcaaagt tcgacacagt cagttggttg aatggaagca gctgttgcaa 300
 gtaggcagca gggtttgcca cagctagctg agtcagagct ggtacaatct gttgcagcaa 360
 ttgttgttgc aggtatgtag gtgcattacc cacaacgaga gggctagatg aaagcagttg 420
 ttgctgttgt aggtaggcgg cagggttcac catggctagt tgactgagcg ctggcagaaa 480
 ctgttgcaat tgttgttgtt g 501

<210> 7691

<211> 500

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-D8

<400> 7691

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cattacatat ggattgggat acgttcgatg caagggcgac acagagagga tgaatttcct 120
atagattagt ttcccattta atttacaagg gcacactttg tgccatatcc atttttattt 180
taacttattc tgtatctcgt ataaaaatca atcaggctgg catatcatgc caggaacatg 240
tactatgcta tcccaaata gaagcctgc atctataacc tctcctaata ctttcctttc 300
ctgccgtata tttccttcct cctcccttt cegtatcgca agatttccat caaaggggag 360
agaaaaagaa aagaaaaggg aaacaaaaa aaaaaagac tccgtcacac actctacacc 420
cgagtggacg agtttttttt cctctgtgcg ttgcaacttg taaataccct actccggtga 480
acataaataa actggttgat 500

<210> 7692

<211> 538

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-075-Q1-N6-D9

<400> 7692

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tattattgaa ctataactca taagaaatct aaaagagggc accaccaatg atggggttggt 120
ggtagaacgc tgctggggtt gtcaaagcaa gttggttgaa tggcagcaat tgttgagtt 180
gtaagagggt gccagcgta ggcgcagcgt gctggtagaa cggcaacaac tgtggttgta 240
tcaagaaggt agcagggtc acaccagcta gctggctgaa tggtagtagt tgttgctgct 300
gtaaataagc aggagagttc aatgctgcca gttggttgaa tgggaagaaat tgctgggggt 360
aggcagcagg tagctggctg aatggtagtt gttgttggtg caaataagaa gcagagttca 420
atgcagctag ttggttgaat ggaagaaact gctgttgctg agagtaggca gcaaggtttg 480
ctagcacaag ttgttgtagt tgttggtgcc tgatgttttg tgccaataaa tgcaccat 538

<210> 7693

<211> 425

<212> DNA

<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-075-Q1-N6-E1

<400> 7693

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actgacactg ccacccatgg tgatgcgtga cacattatta ctcaatcatc gccgctaaat 120
gactcaacta gctagctagc cagcggctat actacagcac atagtttctt cagtggggga 180
caccgccggc agcagcgtag gggcatggag tgggctgctg caggccgcac atcgccgtca 240
gttgctgcgc tatctgcgcc gccaacagcc ccgcgacctg gccgctttgc ggctgctgct 300
gcaggatgga ctggaggacc aagccgaaga tcgcctggta ccggtgctgc ggctccacct 360
gcctgagctg ctggcaacac tgctgccgca acgactggca ctgaggcgag cagtagggcg 420
tcgcc 425

<210> 7694
<211> 512
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-E10

<400> 7694

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attattgaat tacaactaat aagcaatcta aaagaggcac caccaatgat gtgttggttg 120
taggaggctg ctgggtttgt caaagcaagt tggacaaagg gcaacaattg ttgtagttgt 180
aagaggggtg cgggggttagc cgcaactgctc tggtagaaag gcagcaactg ttgctgtgtc 240
aagaaggaag cacggcttgc tgcagctagc tggctaaatg gtagtaatat ttgctgctgc 300
aaataagcag cgaggttcag tgcggccaat tggttaaatg gaagaagttg ttgttgatga 360
gagtaggcag tagctagctg gctgaatggt aatagttggt gctgcaaata agcagcaggg 420
ttcagtgtag atagttgggt gaatggaaga aattgttggt gctgatagta gggagaaagg 480
tttgccagag ctacttggtt gatcacaggt ag 512

<210> 7695
<211> 534

<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-075-Q1-N6-E11
<400> 7695

gggggggggg ttttattttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt ggggaaaaag ggcaacaaaa aaatggataa 120
tttcaaggaa acaaaccctg gttggggggc cccggggggg ataacatcta aaaggaaatc 180
cgggcccccg ggggcgcccc ggaaattccg gcaccggggc cgggggggga cccagttttc 240
cctaaagggg ggcaataaaa agctggggga aaaaagggga aaagcggttc ccgggggaaa 300
atggtaatcc gttaaaaaat ccaaaaaaaaa aacaagccgg aagcaaaaag ggaaaagcgg 360
gggggggcaa aggggggggc aaaccacat aaatgggggg gggccaacgg cccgtttttc 420
agggggaaaa cctggcgggc cagctgaata aaaaaaacgg ccaaccctcg gggggggggg 480
gtttgcgaat ggggccccag gggggttttt tttttcacca gggaaacggg caaa 534

<210> 7696
<211> 531
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-075-Q1-N6-E12
<400> 7696

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attattactc aatcatcgcc gctaaatgac tcaactagct agctagccag cggctataact 120
acagcacata gtttcttcag tgggggacac cgccggcagc agcgtagggg catggagtcg 180
gctgctgcag gccgcacatc gccgtcagtt gctgcgctat ctgcgcccgc aacagccccg 240
cgacctggcc gctttgcggc tgctgctgca ggatggactg gaggaccaag ccgaagatcg 300
cctggtaccg gtgctgcggc tccacctgcc tgagctgctg gcaaacactgc tgccgcaacg 360
actggcactg aggcgagcag tagggcgctc ccgtcgggct gcaactgatgc ctcaggaact 420
cgacgcactg gccaggatc ggggtgctgc caacgccgca gggtccctgc agctggcacg 480
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<210> 7697
 <211> 542
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-075-Q1-N6-E3

<400> 7697

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 tattgaacta taactcataa gcaatctaaa agagggcacc accaatgatg gggtgttggt 120
 agaacactgt tgagtttgtc aaagcaagtt gggtgaatgg cagcaattgt tgcagttgta 180
 agaggggtgcc agcgtaggc atagcgtgca ggtagaacgg caacaactgt tgttggtgta 240
 agaagggcagc aggggtcaca tcagctagct ggctgaatgg tagtagttgt tgctgctgta 300
 aataagcagc agagttcaat gctgctagtt gggtgaatgg aagaaattgc tgggggtagg 360
 cagcaactag ctggctgaat ggtaattggt gttgcaaata agcagcagag ttcaatgcag 420
 ccagttgggt gaatggaaga aactgatggt gctgagagta tgcagcaagg tttgctagca 480
 caagttgttg tagttgttgt gccctgatgt tttgtgccac caaatggacc aaaggtaact 540
 gc 542

<210> 7698
 <211> 299
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-075-Q1-N6-E6

<400> 7698

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 tattgaacta taactcataa gaaatctaaa agagggcacc accaatgatg gggtgttggt 120
 agaacgctgc tgggtttgtc aaagcaagtt gggtgaatgg cagcaattgt tgcagttgta 180
 agaggggtgcc agcgtaggc gcagcgtgct ggtagaacgg caacaactgt gggtgtatca 240
 agaaggtagc aggggtcaca ccagctagct ggctgaatgg tagtagttgt tgctgctgt 299

<210> 7699
 <211> 521
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-E7

<400> 7699

attatgacca tgcataatatt attgggtcata ccacacatga taatgtgtgt cgtcttactg 60
cattattaca tatatagata gagagagatg gatagaggag atttcccaaa tatcatgaat 120
cagtagtagg gcggaatggc agcggagacg ccacaggggt tgggtgcggtg gctgggcagc 180
tgggtactggt agagtccacc catggccggc atgttctgcg ccatcatcat ggccatgggg 240
ttgagaccct gggctgccag cagctgctgc tgctgctgca tcagagctgg ctgctacagg 300
ctgctgctgg cggcagcggc acgctcaagc tgcacatca tctgcagctg ctgcgcgacg 360
gactgcacgt ccatcatcct catctgctgc tggcagcact gttgccggag cggctggaac 420
atggcgctcg gctgccaca cccggcgtag tagggcgccg ccgccagcgg gctgcactgc 480
ggctgcctca ggtactccgc gtaggggtac agcccgccgg a 521

<210> 7700

<211> 545

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-075-Q1-N6-E9

<400> 7700

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aatattgtat tttttttcat ctgagacaaa cacacgatcc ggaaacacca catcaaactc 180
caaataact tgtccatccg tttccagttc acgtacgctt cagcagattg ccaccttctt 240
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ctcctcctcc tcctcctcct cttgtcgac gaggatcttc ttgcacgcct cgtagcacat 360
gaaggcgatg ccggcggcgg gcatgagctt gatgcagcta gggccgagac ctcggtacag 420
gccgcggcgg ccctccttct tgaggatgca gtagatagcg tggaggacgt tctggtacac 480
ctgcctcccg cccacagcgc ccacctgcat ctgcttgccg gccacctcca gcgggaacgt 540
ggccg 545

<210> 7701
<211> 525
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-F1

<400> 7701

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gggcaccatt atcgagtaca tctcatatgt aatctaaaag aggcacctcc aacgatgggt 120
tgctgcctcg acaagacagg attcatcaaa gagaaccggt tgtatggcag caattgttgc 180
tgctgtagga aggcagcgac caatgggtta gccactgcca atggattaag taactgttgt 240
cgctgttgta ggtacgcaac agagtctgac atagttagtt ggttgaatgg aagcagctgt 300
tgcaagtagg caacaggggt tgccacagct agctgagtta gagctggtag aatctgttgc 360
aacaattctt gttgcaggta ttaggtgca ttggccacag cgagcgggct agatgaaagc 420
agttgttgct gttgtaggta ggcggcaggg ttcaccatgg ctagttgact aagcgtggc 480
agaaactgtt gcagttgttg ttgttgctgg ttgcaacta cgttt 525

<210> 7702
<211> 550
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-F11

<400> 7702

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aactttatta ttgaactata actcataaga aactaaaagg ggcaccacca atgatgggtt 120
gttggtagaa tgctgctggg tttgtcaaag caggggggggt gaatggcagc aattgttgca 180
gttgtaagag ggtgccagcg ttaggcgcag cgtgctggta gaacggcaac aactgtgggt 240
gtgtcaagaa ggtagcaggg ctacaccag ctagctggct gaatggtagt agttgttgct 300
gctgtaaata agcaggagag ttcaatgctg tcagttgggt gaatggaaga aattgctggg 360
ggtaggcagc agatagctgg ctgaatggta gttgttggtt ttgcaaataa gaagcagagt 420
tcaatgcagc tagttggttg aatggaagaa actgctgttg ctggagagta ggcagcaagg 480

tttgctagca caagttgttg tagttgttgt gccctgatgt tttgtgcaa taaatgcacc 540
aaaggttaact 550

<210> 7703

<211> 479

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-F12

<400> 7703

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tttttttttt tttttttttt tttttttttt tttttaata aaaaggccaa ttgcctcbaa 120
tggttttaggc ccaaaaaaaaa tgccaattg gggggggggg gggttttttt taaaggaaac 180
aaaacttaaa actttcactc ctttaaaaaa caaaagaatc cccccccacg gaaaacaaaa 240
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gcttttttcc acccccacc catgaagaaa catcatgttg aacaacaatt tcaccccctt 360
tttgggggaa acccccctag gaaaaggac cccaacagcc aaaaccctt ccgaaaaaag 420
agcgggggaa aacaaaacct aacctggaaa cccaataat tttaaccttt gccacctgg 479

<210> 7704

<211> 507

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-F2

<400> 7704

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gacgccacct gcacgtccac atttacaac gaggtgaagt gtggggaaac atggaagaaa 120
aagaaggata aacagccttg agatcgcaa gatctcaatt actaactgtc aagtatatcg 180
aactccgaat cttcaatgac atcccacgat tccttctttg acagcgatgc aggtggagtt 240
ggctgaggag gtcggcggt gtaatcgcg gacgaagcag gttttcgtct gactgaatcc 300
cggcgcaccg aggagctagc gtagggaagg ttcctccggt cagagaggag tgaatccatg 360
tatttgtcca tgacaacaac gttggcacta tcaacgtcac tcagctctc gctactgagg 420

tacctttttac cttctctgaa ggattccaca tctgaaggta tttcagacca ctgatccatg 480
 cttctttcag attttgactt tgcaaat 507

<210> 7705

<211> 531

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-F4

<400> 7705

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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180
 tttttttttt tttttgggaa aaaaaaaaaa tttttagggg ggggggggaa aaaaaaaaaa 240
 aaaaaaaatt tttttaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggggc cccaaaaagg 300
 tgggtgggga gaaaaagagg ttggttttta aaaaaaaaaa gggaaaaaag gaaaaaaatt 360
 ttttttaaaa aaaaaagggg gggggggggg taaaaaaaaa aaaccccgca gggggggggg 420
 ccccccggg gggggaacaa aaggggaccc cccaaaaaaa aaatttggga aaaaaaagg 480
 gccccctcgg ggaaaaaaa ttttggggg ggaaaaaat cccggcgccc t 531

<210> 7706

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-F5

<400> 7706

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 ggccccaacc ggaaaaggaa aaaggcccct tccccgaaaa ggaaaaggc agctgcttaa 120
 ggcttaaggc cgaccgggga ggttccccct gattttggcc aaaaaaccct ttttttcggg 180
 agggccttaa aggggcggcg ccccaaacgg gggggggggg ggtcccccaa aaccaccccc 240
 cccaccggtt gccccggggg ggggctaaag ctggcccaaa cccttggggc cccccgggaa 300
 cttttccttg aacttttcca ccaaaccctt ttttttgggg gggcccccg gcggtgggcc 360

aaccacgaac cctgtccccc ccaacccacc gggggccggc ccttggccct ggccttccct 420
 ggggcccccc ggcatt 436

<210> 7707
 <211> 489
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-F8

<400> 7707

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 aaatatatat tccaaaacgg ggttaatata aaaaaacatg ggccctgcta tatcaaacta 180
 tctttatctg gggatcaggg aactttcaag gctccacttt ctcaaccagc ttgatgcccg 240
 acgactccaa aatctccaat gctggaacgt aaatttccgg ttgcaaaggc ctgaacactc 300
 ctttcgtctg gaccttattc tttacaata gcagggcccc tattgctgct ggaatgcccc 360
 cgggcaacgc catggcaggg ggggacctgc cattttaaac cttcccgaac tccaataacg 420
 gcgcttgggg cttttcgggg ggttggccct ccgggtattc cacctcgact tcggggggga 480
 gcaatacca 489

<210> 7708
 <211> 533
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-F9

<400> 7708

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 tttttttttt tttttttttt tttttttttt tggggaaaaa aaaaacccaa aagggggggg 180
 gaaaaaaaaa aaaaatttcc cccccaaaat ggggggggaa aaaaagggg ggggggaaaa 240
 aaaaattttt tataaaaaaa aaaaaaaaaa actttttttt gggaaagcca aaaaataaaa 300
 aaaaaaaaag ggggggggaa aaccccacca cccccgggg aggggggaaa aaccaacccc 360

ccccctttttg tgggaaaaaa aaaaaaaaaa aactttttcc caccgccggg aaaaaagg 420
gaggccccc ctttttaaaa aaaaagaaaa attggccccc aaaacccga aaaaaaaaaa 480
cacatggggg gcccccggg gaaaaaaaaa aaaggggctt tttgggggg ggg 533

<210> 7709

<211> 530

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-G1

<400> 7709

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ctgccacca tggatgatgc tgacacatta ttactcaatc atcgccgcta aatgactcaa 120
ctagctagct agccagcggc tatactacag cacatagttt cttcagtggg ggacaccgcc 180
ggcagcagcg taggggcatg gagtcggctg ctgcaggccg cacatcgccg tcagttgctg 240
cgctatctgc gccgccaaca gccccgcgac ctggccgctt tgcggctgct gctgcaggat 300
ggactggagg accaagccga agatcgcttg gtaccgggtg tgcggctcca cctgcctgag 360
ctgctggcaa cactgctgcc gcaacgactg gcaactgagg gagcagtagg gcgtcgccgt 420
cgggctgcac tgatgcctca gaaactcgac gcaactggccc aggatcgggg tgctgccaac 480
gccgcaggtt cctgcagct ggcacgggct tggatgcggc tgttggcacc 530

<210> 7710

<211> 527

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-G10

<400> 7710

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cgcatTTTca cttgtacaga ttctaaacta aactactaca ggatattaga atcaacaaga 120
ccagatatat agctccaagt aaaccatagt catctttcga gaaagatcca tagaaaactg 180
ctagtatgta gcaacgagag gtgagaagat tacccttgtc ctatgctcca actctcaaag 240
gttctccatc tggatattgc tcttgagtgg cacgtactcc ccaaggtagc ctccaagggtg 300

ctcatacaat gcagtgcggt caatctgctg gctgtggaag gccttgcagg cgtagtagaa 360
gacactctgc acgagcagtc ctagcagatt gacagagaca agaacgcaca ccagcacggc 420
gccgacaagc agccggccag gcaaggccag gccgaagctc ccctcctcgg tgcgtccctt 480
aacgacagcg gcacggaaca gcaacgaggt cgcgccacag accgcga 527

<210> 7711
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-G11

<400> 7711
gggggggggg ggtttttttt tttttttttt tttttttttt tttttttttt ttttgtctct 60
tggttttttc tttggattcc ggacggggcc ccgggggcgt ccagccggc ccagagggg 120
gccccattag accctggcgt aaccaggggg aggggggggg gcagtgaaaa acagaaatcc 180
gcccagaggg acaaacg 197

<210> 7712
<211> 547
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-G12

<400> 7712
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tttttttaac taatgggggc cggttaattag accgagtcac tgaactgaag ttggtccaag 120
tccaaagcac gggcaaaaaa aaaaagatcc cggggggggg gccaaaacaa aaagctggcc 180
cctggcaggg aggggagctc cccgatatct aaactaaacg ggagctacag ttagacttaa 240
aaacaaatcc cgaaaacgaa accaacgcac gccgactaca gttggtcctt gggaaaggac 300
ggttccaacc cctccttggc cgccggttcc tttttttcca cctccgggtg gtcctggggc 360
tcgtcctcct cctccacggc cgggtggggg ctaaggcca ggcttttggg caccgacttg 420
aaaatgctgg acccaaactc cttgggggtg gggaggtga acccgtttcc cataagggcc 480
gtttggaaca ccagcctcgc cgtttgttta agctcctcgc tttcgtggcc ctgggcaacc 540

ttgtcgg

547

<210> 7713

<211> 521

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-G2

<400> 7713

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caaacatcat aatgtatggt actttattgc ttaacaccgt tatatgagta taacggctag 120
gtagacacaa ttcttcaatt gcaaacacca ctaatgtcat tgctgctgca tggattattt. 180
tggtagtagt agtggtagca gccgcacatt gatggtaggt attgtgctgc tgtcaagatt 240
gccaccgcac tttgagtagc ttgttgagat ccacataact cacatgggtt ttgttggtgc 300
tcctcctgga ttatggattg aaccatgttg tagattgctt ggtgaatgta ttgtggctca 360
atctgcctaa gatcatgaca acattgttgc tgcaataact ggcagctact tggttgtatc 420
aaacgtgatt ggagaaaagg cattaccaa gggctgcact gctgccttag gaattcatga 480
caatttttta gatttagact actgctatag tagttatagc t 521

<210> 7714

<211> 539

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-G3

<400> 7714

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ctataactca taagcaatct aaaagaggca ccaccaatga tgggttggtg gtagaacact 120
gttgagtttg tcaaagcaag ttgggtgaat ggcagcaatt gttgcagttg taagaggggtg 180
ccagcgtagt gcatagcgtg caggtagaac ggcaacaact gttgttggtg caagaaggca 240
gcagggtca catcagctag ctggctgaat ggtagtagtt gttgctgctg taaataagca 300
gcagagttca atgctgctag ttgggtgaat ggaagaaatt gctgggggta ggcagcaact 360
agctggctga atggtaattg ttgttgcaaa taagcagcag agttcaatgc agccagttgg 420

ttgaatggaa gaaactgatg ttgctgagag tatgcagcaa ggtttgctag cacaagttgt 480
 tgtagttgtt gtgccctgat gttttgtgcc accaaatgga ccaaaggtaa ctgctgtaa 539

<210> 7715
 <211> 508
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-G4

<400> 7715

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 tgagggcacc attatcgagt acatctcata tgtaatctaa aaaaggcacc tccaacgatg 120
 gggttgctgcc tcgacaagac aggggtttatc aaagagaact gggtgtatgg cagcaattgt 180
 tgctgctgta ggaaggcagc gaccaatggg ttagccactg ctagtggatt aagtaactgt 240
 tgctgctggt gtaggtaccc agcaaagttc gacatagtca gttgggtgaa tggaagcagc 300
 tgttgcaagt aggcagcagg gtttgccaca actagctgag tcagagctgg tacaatctgt 360
 tgcaacaatt gttgttgcag gtatgtaggt gcattggcca cagcgagcgg gctaaatgaa 420
 agcagttgtt gctgtttag gtaggcggca ggggtcacca tggctagttg actgagcgct 480
 ggcaaaaact gttgcagctg ttgttgtg 508

<210> 7716
 <211> 521
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-G5

<400> 7716

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 tataactcat aagcaatcta aaagagggca ccaccaatga tgggttggtg gtagaacact 120
 gttgggtttg tcaaagcaag ttgggtgaat ggcagcaatt gttgcagttg taagaggggtg 180
 ccagcgttag gcatagcgtg caggtagaac ggcaacaact gttgttgtgt caagaaggca 240
 gcagggctca catcagctag ctggctgaat ggtagtagtt gttgctgctg taaataagca 300
 gcagagttca atgctgctag ttgggtgaat ggaagaaatt gctgggggta ggcagcaact 360

agctggctga atggttaattg ttgttgcaaa taagcagcag agttcaatgc agccagttgg 420
 ttgaatggaa gaaactgatg ttgctgagag tatgcagcaa ggtttgctag cacaagttgt 480
 tgtagttgtt gtgccctgat gttttgtgcc accaaatgga c 521

<210> 7717

<211> 530

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-G7

<400> 7717

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 gtcgagtaca tctcatatgt aatctaaaag atggcacctc caacgatggg ttgctgcaag 120
 gcaggggttca tcaaagagaa ctggttgat ggcagcaatt gttgttgctg ctgcaggaag 180
 gtagcgacca atgggtagc cactgccaat ggattaagta actggtgctg ctggtgtagg 240
 tacgcagcag agtttgacac agccagttgg ttgaatggaa gcaactgttg taagtaggca 300
 gcaggggttg ccacagctag ctgagtcaga gctggtacaa tttgttgacg caactgttgt 360
 tgtaggtacg taggtgcatt gccaccgcg agcgggctag atgaaagtag ttgtaggtag 420
 acggcagggt tcaccatggc tagttgactg agcactggca taaactgttg cagctgttgt 480
 tgttgctggt atgcagctac gttcgccaga gcaagtgggt tggatgcaag 530

<210> 7718

<211> 509

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-075-Q1-N6-H1

<400> 7718

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 tatccgcacg tacatactac agagccacac ttattgcact gcctgccgct tacgtacata 120
 gttaacacgc agagaggtat atacatacac gtccaacgtc tccactcagg ctcagtctac 180
 gtacgcacgt cggtcgcgcg ccaccctctt gttgcttctt gctcgttttg gcgagcgcgg 240

cggcctcaca tcctggcggt aaccatcctc atgagcgtct ccgccacctc ctccgggggc 300
 ccggggccgt ggcgtccttc gcggtcctcc tctcttttct ccgctcctc acgtccgtgg 360
 cgttccctct cccacggcc gccgtggcgt tcttcgcgtt cctcctcctc ctcttgetcc 420
 cgctcctcgt ggccgccgt ctcttgggg ccaggaagga accccttctc gcgccgcgag 480
 ccgagcacct ngtcacctc ctccgcctt 509

<210> 7719
 <211> 532
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-075-Q1-N6-H10
 <400> 7719

gggggggggtt tttttatttt tttttttttt tttttttttt tttttttttt cttttttttt 60
 tttttttttt tttttttttt aggggcatta taattacaat taggattctt attcaaatat 120
 catagtacaa acatcataat gtatgggact tgggggggaa acaccgttat aggagtataa 180
 cgggtaggga gacacaattc ttcaattgca aacaccacta agggcattgc tgctgcatgg 240
 attatttttg gagtatgagg gggacaagcc gcacattgag gggaggtatt gggctgctgt 300
 caaaattgcc accgcacttt gagtagcttg gtgagatcca caaaactcac atgggggggg 360
 ggggggctcc tcctggatta tggattgaac catgttgtaa attgcttggg gaatgtattg 420
 gggctaaatc tgcctaaaaa atgacaacat tgttgctgaa aaacctggca gctacttggg 480
 tggataaaac gtgattggag aaaaggcatt accaaagggg tgcactgggtg cc 532

<210> 7720
 <211> 534
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-075-Q1-N6-H11
 <400> 7720

accattgaag ttgtacatta ccagtttaag ttatccaaca gacaaacagg gatcaacatt 60
 ttgcaactca tttttcatct ccattacaac ttacaaggac acatgagcat acatacagct 120
 gctctactct agatggggta cattccacc gacaccaact taacagcact atttactcag 180

cagaactcta gttcatactt aacaaaaaag agaagctata taagcttttg cacagcacag 240
ctagaggcac atatcatgca caatgcttct gagatctggc cccggcttag tggttggtgga 300
gctgagcagg ggccagaagt cagaagcacc acacatcacg atgggcccgt gagctgacta 360
tacatgcata acatggcaca aacatgagat ggcatattaa gacctgacct ctgcagcaac 420
cttgccgccg tttgaaaacc tgagattaca aagtagtgca tcacgccctg taagcacana 480
tatggaagaa gtcatccacc cgcttcgaca gcgagtccaa cccaactgg agcc 534

<210> 7721

<211> 473

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-H2

<400> 7721

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caggataaag cataaaaaaa ctagaagagg ccccccaat ggggggctgc tgcaataagg 120
ggggaggatt cgtcaaagca aggtgggttaa atggcagcaa ttgttggtgt tgtaagaagg 180
cgacattgtt tgccacatcc tgggggtaga atgggagcaa ctgttgctgt tgcaagaagg 240
cgttaatgtt tcccacaacc tgggggtaaa atggcagcaa ttgttggtgt tgttgcaaaa 300
aagcaacaat gtttgccaca acttgtaa atggaatggaag caactgttgc tgcaataaaa 360
aggcaacagg gtcctgaca agttgggtga atggtaatag ctgttgggcc tgcaagtaaa 420
cagcagggtt caccccaact agttgattga atggaaaaaa ttgttggtgc tgg 473

<210> 7722

<211> 255

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-075-Q1-N6-H3

<400> 7722

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ggatatgaggg caccattgtc gagtacatct catatgtaat ctaaaagatg gcacctccaa 120

cgatgggttg ctgcaaggca gggttcatca aagagaactg gttgtatggc agcaattgtt 180
 gttgctgctg caggaaggta gcgaccaatg ggtagccac tgccaatgga ttaagtaact 240
 gttgtcgtg ttgta 255

<210> 7723

<211> 524

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-H4

<400> 7723

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 gaggtcctcc tttttttaat ggtgtactag tagcttagaa gctaacacca accaaggaag 120
 gacaaccaag aagctaaggc ctggtttatt attaactgga aacataaaat aaaaagtagg 180
 gtttgtttat tgcatttggc atgtatcacc caactgtcgc agtcatggcg acggtgtcaa 240
 cgaagatacg gacgcggtcg gggcgaaggc ccagcgtcac gggcgaccca acaggcagca 300
 cctggatgta cgcgttgggc atgtccttga gaatagtctc cgtcgctccc ttgatggaca 360
 tgcccaccac ctccggccac gacgtcttct tctcgtgct gctggtagca gcagcatcca 420
 cgacgacgga actcatcatc tccgatccga cgacgatgtg tttcgttatg cagtcaacaa 480
 tgtgatgaag catgcatgtg agacctaact cccctgcttg tcga 524

<210> 7724

<211> 506

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-H7

<400> 7724

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 tgctggggtt gtcaaagcaa gttggacaaa gggcaacaat tggtgtagtt gtaagagggt 180
 tgcggggtta gccgcaaact gctttagtaa aggcagcaac tggtgctgtg tcaagaagga 240
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agcgggggttc agtgcggcca attggttaaa tggaagaagt tgttggtgct gagagtaggc 360
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 agacagttgg ttgaatggaa gaaattggtg ttgctgagag tagggagaaa ggtttgccag 480
 agctacttgg ttgatcacag gtagca 506

<210> 7725

<211> 529

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-075-Q1-N6-H8

<400> 7725

cgctcaāagc acacagtatg gtaattaaac tgatcaattt acagcatgat gtatcccāaa 60
 atccaggccc ccaatgtcga ttcaacatgt aactaacatt tgctgctaca acattctacc 120
 ctacaacatt gaaggacaca aaagagcaaa aagaaagaaa aaatgccttg gatgacactt 180
 ttattgctcc gatgatctcc aacagactga tctgcagatc acgcatgtaa ccagggtgctg 240
 atcattgtcg aatgtcgaga cacacagctg catgtcgcac gttcacttca tataactgtt 300
 ccactaggga gtaaagcatc cttgatcact gtgacaattc cacctttgat gaagtacccg 360
 tctgtctcca ttgcagcttc ttgaacattg tcagcattga gtatcttaac attgtctcca 420
 attcgagcat tcttgtcaat gattgctctc ctgatgcatg aatttttccc aataccaata 480
 ggaatgccac ctttttcggc aaggagtttt ttatcagctt ctgtctcat 529

<210> 7726

<211> 534

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-075-Q1-N6-H9

<400> 7726

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 acaccagtat gtttaatccc atggaacacc acgaattacg aatcacatat agtcccgagt 120
 cccaaggggt agttttcaat ccaacaaccc tggaatggca cattaaagtt cacagcttct 180
 gttgacaaaa tgacaataga ggctcaagtt cagaccagcc cagcgtcagt aggtgattag 240

ctcttctgat gcacagcaat aagatgaatc tccatctcct taagcatgat cgaccgtcca 300
caggagtcac atggtgctgt cctggatccg cagatactct catgctcaga catgtttcgc 360
atcctgtcac gaacatcaga aggctctcca ccagcctgga ctgtgtcacc acagaagcgg 420
cacacaatta atcgcaagg gcaagtcaag gactggtgct gaaccatata ttccttctcc 480
aggaccacc caccaggggca ctgcaacggt tcatggaaga ctttcatatg cttt 534

<210> 7727

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-A1

<400> 7727

aaaaaggggg gggggttttt ggggcaaccc cccgttgggg gggtaagggg gggggggaac 60
ccaatttttt aaggggaaac cccctagggt gtttgggggg ggggggggtt ttttgggggg 120
gggggggggg ccccccccc cctggggggg ggggttgggg ggggggaaaa aaagcccccc 180
ccccttttgg gggggggggg gaaccccaaa aaccaaagg gggggggggg gggccccccc 240
gggggtttgg ggggaaccct tttgaaaaat ggggggggaa agtttggggg gaaaaatggc 300
caaaaaaaaa aaaaaatggg ggggggaaaa ccgggggggt tttggggggg ttaaaaccgt 360
tgggggaaaa agctttccca gggggggggc 390

<210> 7728

<211> 512

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-A10

<400> 7728

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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt ccccaaaaa aaaaaaagg ggggaaaaaa aaaaaaaaa aaaagggggg 180
ggaaacccaa aaccggggg ccaaaagaaa aaaaaaaaa aaaaaaaaa aggggaaaaa 240
aaaaaaaaa ccaaaaaaaaa gggggggaaa aaaaaaaaa aaaaaaaaa aagggggcgg 300

ggaaaaaatt tttggggggc gaaaaaaaaa aaaaaaaggg agggaaaaaa aaaaaggaaa 360
aagggggggg aaaaagggga aaaaaaaaaa aaaaaaaggg gaggggaaaa aaaaaaaaaa 420
aaaaaagggg gaaaaggggg aaaaaaaatt tttgaaaaag ggaaaaaatt aaaaatggaa 480
aaaaaccccc cgtgggccct ttggggattt tt 512

<210> 7729

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-A11

<400> 7729

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tttgacgggg ggggacaaat ttaagaaaaa aaaaaaaaaa aaaaaaaaaa tttaaaaaaa 120
aaacccaaaa ttaaaaaaag ggagcaccta attcaccctt tttgggcgta aaaaattaaa 180
aaaaattttt taaaaaaaaa agtggaaaga aaataaaaaa aaattctaaa aggggggaaa 240
gcaaaaaaaaa accaaccaag ggggaaaaaa aaattaaaaa aaagggtctt caaaaccggg 300
gggggggaaa aacctaagaa aaccaaatag gggaaaaaag aaagggatta ccaaagcca 360
ggcaaaacca cacaaccgga aaaagaaaag gaaaa 395

<210> 7730

<211> 528

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-A12

<400> 7730

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actataactc ataagaaatc taaaagaggg caccaccaat gatgggttgt tggtagaacg 120
ctgctgggtt tgtcaaagca ggggtgttga atggcagcaa ttgttgctgt tgtaagaggg 180
tgccagcggt aggcgcagcg tgctggtaga acggcaacaa ctgtgggtgt atcaagaagg 240
tagcagggtt cacaccagct agctggctga atggtagtag ttgttgctgc tgtaataaag 300
caggagagtt caatgctgcc agttggttga atggaagaaa ttgctggggg taggcagcag 360

gtagctggct gaatggtagt tgttgttgtt gcaaataaga agcagagttc aatgcagcta 420
 gttggttgaa tggaagaaac tgctgttgct gagagtaggc agcaaggttt gctagcacia 480
 gttgtttagt ttgttgtgcc ctgatgtttt gtgccaataa atgcacca 528

<210> 7731

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-A2

<400> 7731

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 gggggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg gggggggggg ggggggattt 120
 tggggggggg ggggggggga aaggggaaaa aggggggggg gggggggggg gggaaaaaaa 180
 aaggccccc cttggggggg gggggggggg aaaaaaaaaa aaaaaggggg gggggggggg 240
 gttcccccg gggggggggg aaaaaaaagg ggaaaagggg ggggaaaaaa gttgggggga 300
 aaaaaaggaa aaaaaaaaaa aaaaatgggg gggaaaaa 338

<210> 7732

<211> 494

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-A3

<400> 7732

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 gggagggccc cagacgacgc aggcccatcg gcagcttaaa cgacccatga cttactgacc 180
 accacgggga cggagcacia gggggagggg gctctccttt tggatgttgt agtctgctag 240
 ggggcggcca tcctccagct gtttgccggc gaaaatacaa accctgctgg tccgggggga 300
 tgccctcctt ggccctggatc ttgccttca cattggcgat ggggtccgag ctctcaacct 360
 ccagggttat ggtttttcca gtcagggtct tcacaaagat ctgcatacca cccctgaggg 420
 ggaaaacaag gggaaggggg ctctccttct ggatgttgta gtccgcgaga gtgcggccat 480

cctccagctg cttg

494

<210> 7733

<211> 536

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-A4

<400> 7733

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agtataactc ataaacaatc taaaagaggg caccaccaat gatgggttgt tggtagaacg 120
ctgttgggtt tgtcaaagca agttggttga atggcagcaa ttgttgcagt tgtaagaggg 180
tgccagcggt aggcgcagcg tgcaggtaga acggcaacaa ctgttggtgt gtcaagaagg 240
caacagggct cacatcagct agctggctga atggtggttag ctgttgctgt tgtaaataag 300
cagcagagtt caatgctgcc agttggttga atggaagaaa ttgctggggg taggcagcag 360
ctagctgact gaatggtagt tgttggttga aataagcagc agagttcaat gcagccagtt 420
ggttgaatgg aagaaactgc tgttgctgag agtaggcagc aaggtttcct agcacaagtt 480
gttgtagttg ttgtgccttg atgttttgtg ccaacaaatg caccaaaggt aactgc 536

<210> 7734

<211> 501

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-A5

<400> 7734

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ggtaacagca cccatcgatc cgcagtccat gctggttgat gcatgggtct gctggagccg 120
aggatgaaca cagcactaac aactgacaca gagcgacctt caatcaaaaa cacagatggg 180
caacaacaaa cacgagacga acgaagataa acactctgga ctagggtaaa caacacggta 240
gcgaacagga taacttggcc gcgcgggcc caccgctcag ttcttccagt tcccgtcgga 300
gttgccgtag ccgcccacc ggttgccacc gccgtagccg ccgccaccac caccgtagcc 360
gccgccgcca ccaccgtagc cgccgccacc gccgtagccg ccgccgccat cacggggccc 420

gccaccgccg tagccgccgc ctacacggcc accaccgtac ccgccgccgc cgccgcctcc 480
acggggcgccg cgggactggg c 501

<210> 7735

<211> 479

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-A7

<400> 7735

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catataatac ccagggacaa gacaacagta catcacatag ctagataact gggaagccaa 120
ataccctgtct tagcgaggac caccataaat agagcttaca caacatagcc aacatgcaaa 180
tcatttttaa actgaccaga tgcagaggca ggaattctcg aggggggcta cacaagggtg 240
caccgggcac tggaatgccc aacaacaaga ttgttagcagc aaacatggaa aaaaaaggcg 300
cggggggcaa ggcaacaatt ccccatgacg agttaccgcg gtttacaatt ttcctgatac 360
ccaaccgtag ggaaccccc ctaaattcttg tcgagcttgt ctgccttcac caccggatta 420
accttggaac tggcgtccct ggcagcagtc cggtagtcaa acttgcagtc gtgcttgtc 479

<210> 7736

<211> 520

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-A8

<400> 7736

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tctggaaatg taacttctta tttctggttg gccacatata tcatccaaaa aatttattat 120
tgaattacaa ctaataagca atctaaaaga gggcaccacc aatgatgtgt tgttggtagg 180
aggccgctcg gtctgtcaaa gcaagttgga caaagggcaa caattgttgt agttgtaaga 240
gggttgcggg gttagccgca aactgctggt agaaaggcag caactgttgc tgtgtcaaga 300
aggaagcacg gtttgctgca gctagctggc taaatggtag tagtatttgc tgctgcaaat 360
aagcagcggg gttcagtgcg gccaatgggt taaatggaag aagttgttgt tgctgagagt 420

aggcagtagc tagctggctg aatggtaata gttgttgctg caaataagca gcagggttca 480
gtgtagacag ttggttgaat ggaagaaatt gttgttgctg 520

<210> 7737
<211> 507
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-A9

<400> 7737

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tattgaacta taactcataa gaaatctaaa agagggcacc accaatgatg ggttgttggg 120
agaacactgc tgggtttgtc aaagcaagtt ggttgaatgg cagcaattgt tgcagttgta 180
agaggggtgcc agcgtaggc gcaacgtgct ggtagaacgg caacaactgt ggttgtgtca 240
agaaggtagc agggctcaca ccagctagct ggctgaatgg tagtagttgt tgctgctgta 300
aataagcagg agagttcaat gctgctagtt ggttgaatgg aaaaaattgc tgggggtagg 360
cagcaggtag ctggctgaat ggtagttggt gttgttgcaa ataagaagca gagttcaatg 420
aacctagttg gttgaatgga aaaaactgct gttgctgaga gtaggcagca aggtttgcta 480
gcacaagttg ttgtagttgt tgtgccc 507

<210> 7738
<211> 508
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-B1

<400> 7738

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tgctcacact gccacccatg gggatggggg aactccgtt actcatcgcc gctaaacgag 120
tgaactagct atagccctat aggtagctag tcagcggctc cattacatta ttactacagt 180
acatagtttc ctcaagtagta gacaccgccg gcagctgcgt tgcaagggca gggacctggc 240
tgctgcagct gcaaaccgca catcgccgtc agctgctgcy ctacctgggc cgccatcagc 300
gccgcgagct cgccctgcgg ctgctgctgc aggaaggact gcaggaccac accgtatgtc 360

gcctggtacc ggtgcagcgg ctccacctgc ctgatctggt ggcagaactg ttgctgcagc 420
gcctggcact gtggcaagcc gtagggcggt gccgccgggc tgactggtg cctcaggaac 480
tcgacgcact ggcccagaaa cgggctgc 508

<210> 7739
<211> 541
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-076-Q1-N6-B10
<400> 7739

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aattacaact aataatcaat ctaaaagagg gcaccaccaa tgatgtgttg ttggtaggag 120
gctgctgggt ttgtcaaagc aagttggaca aagggaaca attgtttag ttgtaagagg 180
gttgccgggt tagccgcaaa ctgctttag aaaggcagca actgttgctg tgtcaagaag 240
gaagcacgac ttgctgcagc tagctcgcta aatggcagta gtatttgctg ctgcaaataa 300
gcagcgggt tcagtgcggc caattggtta aatggaagaa gttgttgtg ctgagagtag 360
gcagtagcta gctggctaaa tggtaatagt tgttgctgca aataagcagc agggttcagt 420
gtagacagtt ggttgaatgg aagaaattgt tgttgctgag agtagggaga aaggtttgcc 480
agagctactt ggttgatcac aggtagcacg agttgctgca gctgttgctg cctgatgggt 540
t 541

<210> 7740
<211> 516
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-076-Q1-N6-B11
<400> 7740

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tataactcat aagcaatcta aaagagggca ccaccaatga tgggttggtg gtagaacact 120
gttgggtttg tcaaagcaag ttggttgaat ggcagcaatt gttgcagttg taagaggggtg 180
ccagcgtag gcatagcgtg caggtagaac ggcaacaact gttgttggtg caagaaggca 240

gcagggctca catcagctag ctggctgaat ggtagtagtt gttgctgctg taaataagca 300
gcagagttca atgctgctag ttgggtgaat ggaagaaatt gctgggggta ggcagcaact 360
agctggctga atggtaattg ttgttgcaaa taagcagcag agttcaatgc agccagttgg 420
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tgtagttggt gtgccctgat gttttgtgcc accaaa 516

<210> 7741
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-B12

<400> 7741

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acaggaagt atgagcacat cagtggcttg aaaaagatct tcctcggtta ccatgttcaa 120
catggagctt gaatcaccac ccacgcgaac taaggggcac aacaagtcgc ccaaggtctc 180
gtccactgcc ttgttccata catgagccag ttcagttgag cttcttcgac tggcaatttc 240
accaggtgg taaaagtagg gcgaccgctc ggcttcagcg attgaacggt agatggcccg 300
gcgctggtgg aggacgaagc cgccgatgga gacggaacc agggcgaacc cgaggaggcg 360
ctctgcgcg aggatgctga tcatggcagt gatggtggtg gccgccggcg gcacgcgaga 420
ttttttttgg gggtcggacg cgtggg 446

<210> 7742
<211> 520
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-B2

<400> 7742

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gggcaccatt atcgagtaca tctcatatgt aatctaaaag aggcacctcc aacgatgggt 120
tgctgcctcg acaagacagg attcatcaaa gagaactggt tgtatggcag caattgttgc 180
tgctgtagga aggcggcgac caatgggtta gccactacca atggattaag taactgttgt 240

cgctgttgta ggtacgcagc agagttcgac agagtcagtt ggttgaatgg aagcagctgt 300
 tgcaagtagg caacaggggtt tgccacagct agttgagtca gagctggtagc aatctgttgc 360
 aacaattgtt gttgcaggta tgtaggtgca ttgccacag cgagcgggct agatgaaagc 420
 agttgttgtt gttgtacgta ggcggcaggg ttcacatgg ctagttgact gagcgttggc 480
 agaaactgtt gtagctgttg ttgttgctgg tttgcaacta 520

<210> 7743

<211> 518

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-B3

<400> 7743

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 gttggggttg tcaaagcaag ttggttgaat ggcagcaatt gttgcagttg taagagggtg 180
 ccagcgttag gcgcagcgtg ctggtagaac ggcaacaatt gtggttggtg caagaaggta 240
 gcagggctca caccagctag ctggctgaat ggtagtagtt gttgctgctg taaataagca 300
 ggagagttca aagctgtcag ttggttgaat ggaagaaatt gctgggggta ggcagcagat 360
 agctggctga atggtagttg ttgttggtgc aaataagaag cagagttcaa tgcagctagt 420
 tgggttgaatg gaagaaactg ttgttgctga gagtaggcag caaggtttgc tagcacaagt 480
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<210> 7744

<211> 542

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-B4

<400> 7744

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 tttttttttt tttgggggga aaaccccaac aaatttgggg gtttttttgg ggaacccccc 180

gggggggggg gggccccctt tgggggcccc cttttttggg aataaaaaga gggggcccc 240
 ccccgggggg ggggggcccc ccccgggggg ggttttttaa aaaaaacggg gggggggggg 300
 aaaatttggg ggggtggggg gggggggggc ccagggggg ccccccccc ccgggggtaa 360
 aaaccggggg ggccgtgggg ggggcccccc caaatattcc ccaggacctt ggggggaagg 420
 gggacccttt ttggaagggg ggcaaagggg ttcccccccc tttgggggga aaaggggggg 480
 ccaattgggg gaaaaaattg gggggggggg ttttgggggg ttttccccca aggggggggg 540
 tt 542

<210> 7745

<211> 491

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-B5

<400> 7745

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 aaagcaaaat cctaaacca aacagacagc attgtcttaa aatacagatc atcatcctgg 120
 ctgccctttt taaagtacac aaagggggca aatcaaattc tccagatcgg atagttcaaa 180
 ggtaaccatc tccagacggg tggctactcc cctatcctcc tcttttctca gttggccttc 240
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 cctcaaacct tttttgcacc tgggtaaaaa catcagaatc cgaagcagag gaaacaaagg 360
 tgattgcaag tcccttcgtg ccaaaacgtc cagcccttcc aaccctgtgc aaataagtat 420
 cagctgagtc tggcatgtca tagtttatca caatgttgac acgctcaatg tcaatgcccc 480
 tgccaactaa a 491

<210> 7746

<211> 497

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-B6

<400> 7746

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 ttcaattgca aacaccacta atgtcattgc tgctgcatgg attatatttg tagtatgagt 180
 ggtacaagcc gcacattgat ggtaggtatt gtgctgctgt caagattgcc accgcacttt 240
 gagtagcttg ttgagatcca cataactcac atgggtgttg ttgttgctcc tcttggatta 300
 tggattgaac catgtttag attgcttggg gaatgtattg tggctcaatc tgcctaagat 360
 catgacaaca ttgttgctgc aatacctggc agctacttgg ttgtatcaaa cgtgattgga 420
 gaaaaggcat taccaaagg ctgcactgct gccttaggaa ttcatgacaa ttttttagat 480
 ttgagctact gctatag 497

<210> 7747
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-076-Q1-N6-B7
 <400> 7747

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 gggggggggg gaaaggga aaaaagtttt gtaaaaaaaa aaaagaaagg aaaaaaaaaa 180
 aggggggggg aaaagaaaaa aagggggggg gagagggagg gaatttggtt aaaaaaaaaa 240
 agaggggggg gaaaaggggg gtatgggaaa aagggggggg gggggggaag naaaagattt 300
 tttgaaagaa aaaaaaatgt ttttggtaga aaaaaaaaaa agggttagtg tgagtaaagg 360
 gggaagaaag gggaaaataa ttttttgggg aaaaaaaagg gggggg 406

<210> 7748
 <211> 266
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-076-Q1-N6-B9
 <400> 7748

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caggccagcg ctgccccaaa cgctcaaaca agaaagaaaa aaaaacagga accaaagttc 120
 ttggaaacca agtacacata actccaatac acgactaaca atgcgaattg cggtgaaaca 180
 gatcgaaatg caggcgatgg ttctccggcc tgggcttctt cttcttcttc tttccccgta 240
 ctaatcgaag gacagcggaa cctggc 266

<210> 7749

<211> 522

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-C10

<400> 7749

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 ctgctaggtt tgtcaaagca agttggttga atggcagcaa ttgttgctgt tgtaagaggg 180
 tgccagcggt aggcgcagcg tgctggtaga acggcaacaa ctgtggttgt gtcaagaagg 240
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 gttggttgaa tggaagaaac tgctgttgct gagagtaggc agcaagggtt gctagcacia 480
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<210> 7750

<211> 535

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-C11

<400> 7750

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 agacatatag ctatggataa attaggctgg gggggggggc agccaccacc atcgccagca 180
 ccccaggaga aggactgatc ggaagtcacg cctagatctt gttgaaggca actatgtcgc 240

agctctgcac gtactcgttc actggctcag cgcacagata gtcctcaatg agagtgtcga 300
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ctgggacaag cttggatgcg cccagagca gcccttccat ctggacactc ctaacagctt 420
cctcgagctt ggccatgtca gtctcatcgt cccatggctt cacatcaagt aaaactgatg 480
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<210> 7751

<211> 528

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-C2

<400> 7751

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gggcccccca aacatcaccc aaaaaacctc attaggggaac caaaacccaa aagcaatcta 180
aaagggggcc cccccaaggg gggggggggg ggaaaacacg ggggggggtg gaaaaacaag 240
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cagggaaaac ggcaacaacg gggggggggg aaaaagggga gcagggccca caaaaactag 360
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tggggggaaa ggaaaaaat gggggggggg gggaaaaacc agcgggggga aggggaattg 480
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<210> 7752

<211> 496

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-C3

<400> 7752

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ccaatgatgg gttgttggtg gaacactgct gggtttgtca aagcaagttg gtcgaatggc 120
agcaattggt gcagttgtaa gagggggcca acgttaggcg cagtgtgcag gtagaacggc 180

aacaaatgtt gctgtgtcaa aaaggcagca gggctcacag cagctagctg gctgaatgg 240
 agtagttgtt gttgtgttac ataagcatga gagttcaatg ctgccagttg gttgaatgga 300
 aaaaattgcc gggggtaggc agcaactagc tggctgaatg gtagtagttg ttgttgctgc 360
 aaataagcag cagagttcaa tgcagctagt tggttgaatg gcaaaaactg ttgttgctga 420
 aagtaggcaa caaggtttgc tagcacgagt tgtttagtgg gttgggccct gatgttttgt 480
 gccacaatat gcacca 496

<210> 7753
 <211> 520
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-076-Q1-N6-C4
 <400> 7753

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 aagggaaaaa gagcaaaggg caccaagcac tacttgtcag agcctagcta ctatccctac 120
 caaggaattdt cacctaacta ggaatctcgt gtgcttgaat gtcctcaaga ccctcttcgt 180
 aatgaacatc tgcaagatta agactgcagc cagtagcaac cagaagaaga aaggggatga 240
 ccacattcac cttgtacttg ttgctgtata acagctccta ccaaaaatgt atacctaat 300
 agaactagag taaaaagtga cctaaacttg gcagaccctt ctacttggga gcaactgtaa 360
 catcaatccc aggcactcgg agcccagct ccaccgtgtc cgccaccacc ataaccacca 420
 ctgctgcctc caccatagta gtcaccacca ccacgggnat ccccccttgc caaatgacga 480
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<210> 7754
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-076-Q1-N6-C5
 <400> 7754

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gggggggggg gggaaaaagg gggggggggg ggggggaggg ggggggggga agggggaaaa 180
 aggggggggg agaggaagg agaaggggga aaaaaaaaaa agggggggga aggaagagg 240
 gggggggggg ggaaaaaagg gggggagggga aaaaaagaag gggggaaaaa aggaaaaaaa 300
 gtggggggga agaaaggagg aaaggggggg aaaggggagg gggtagggga aaaaaaaaaa 360
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 aagggggggg ggaaaaaaa aga 443

<210> 7755
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-076-Q1-N6-C7
 <400> 7755

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 gaaaaaagga aaccgaaaa aagcaaaaa aaaaaaaaac ccggaaaaaa aaaaaaaaaa 180
 accggggggg caaaaaaaa aaacaaaca aaaaaaagaa aaagggaca accaccccaa 240
 aaaaaaagg aaaaccgccc cggccagggg aaaaaaaa aaggccaacc cccggggaaa 300
 agcggaaaac aaaaaaggcc ccaaagggg gtttcttta aaaagggaac ccggaaaaaa 360
 gtgatggccc caaaccccc ggcccaaaa aaaggaaaa agcgccccac ccgggggaac 420
 ccaaacagaa aaa 433

<210> 7756
 <211> 488
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-076-Q1-N6-C8
 <400> 7756

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 taaactagcg agctaggtag ctagtacgcg gtcatttac attattacta cagtacatag 180

tttcctcagt agtagacacc gccggcagct gcgttgcaag ggcagggacc tggctgctgc 240
agctgcaggc cgcacatcgc cgtcagctgc tgcgctacct gggccgccat cagcgccgcg 300
agctcgccct gcggctgctg ctgcaggaag gactgcagga ccacaccgta tgtcgcttgg 360
taccggtgca gcggctccac ctgcctgata tgggtggcagc actgctgctg cagcgcttgg 420
cactgtggcg agcccgtagg cgtcgcgcgc gggctgcact ggtgcctcag gaactcgacg 480
cactggcc 488

<210> 7757

<211> 538

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-D1

<400> 7757

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taattttatth ttattagaaa caataaagga aaggaaaata tccgatgctc aaaaggggct 120
taactaaaaa cgaatccaaa cgcagcgaat ggactagtag agtcatcatt ccgtctgtcc 180
ggggccacgaa atggcatcag gagctcaggt gaggatcagg caatatgacg cgcgcggagt 240
ccccggggctc gcagaccaga acacggcgat ccgcggggat cctggagacc agctcgggct 300
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cgatggccag gcagcagccc ctgaagccgg cgccgctgaa ccgggcgcgg agggcgccgg 420
gggccttcag caggatctcg tacagctgga tcattctttt gctccacat tcgtagttga 480
gtatggagct gcgaccagat tcagagatca gctgtccaag ttctttagg ttcccatg 538

<210> 7758

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-D3

<400> 7758

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aaaaaaagaa aatttttaaaa gggggggggg ggaaaaaaa aaaaaaaaaa aatttttaggg 120

ggaaaaaaaa aaaaaaaaaa aaaaaaaag gggggcccca aaaagggggg gggggaaaaa 180
 aaaaaggggg ggaaaaaaaa aaaaaagggg gggaaggaaa aaaaattttt tttttgaaaa 240
 aaaaacaaaa aaaaggggga acacccgggg gggaaaaaaa aaaagggggg gggggggggg 300
 aaaacccaaa aaaaaaaaaa aaaaaggggg gggggaaaaa aaaaaaatt tggaaaaaag 360
 aaaaaagggg ttcccaaaaa attttggaaa aaaggga 397

<210> 7759
 <211> 541
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-076-Q1-N6-D4
 <400> 7759

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 tagaactctg ttgggtttgt caaagcaagt tggttgaatg gcagcaattg ttgcagttgt 180
 aagaggggtgc cagcgttagg catagcgtgc aggtagaacg gcaacaactg ttgttggtgc 240
 aagaaggcag cagggctcac atcagctagc tggctgaatg gtagtagttg ttgctgctgt 300
 aaataagcag cagagttcaa tgctgctagt tggttgaatg gaagaaattg ctgggggtag 360
 gcagcaacta gctggctgaa tggtaattgt tgttgcaaat aagcagcaga gttcaatgca 420
 gccagttggt tgaatggaag aaactgatgt tgctgagagt atgcagcaag gtttgctagc 480
 acaagttggt gtagttgttg tgccctgatg ttttggtcca ccaatggac caaaggtaac 540
 t 541

<210> 7760
 <211> 524
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-076-Q1-N6-D5
 <400> 7760

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 taggaggctg ctgggtttgt caaagcaagt tggacaaagg gcaacaattg ttgtagttgt 180
 aagaggggttg cgggggttagc cgcaaactgc ttgtagaaag gcagcaactg ttgctgtgtc 240
 aagaaggaag cagcacttgc tgcagctagc tgcgctaaatg gcagtagtat ttgctgtgtc 300
 aaataagcag cgggggttcag tgcggccaat tgggttaaag gaagaagttg ttgttgctga 360
 gagtaggcag tagctagctg gctaaatggt aatagttgtt gctgcaaata agcagcaggg 420
 ttcagtgtag acagtgtggt gaatggaaga aattgtgtt gctgagagta gggagaaaagg 480
 tttgccagag ctacttggtt gatcacaggt agcacgagtt gctg 524

<210> 7761
 <211> 499
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-076-Q1-N6-D6
 <400> 7761

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 tttttataaa aaatataaaa aagggggcca ccaaagaagg ggggggggaa gaaaaagggg 180
 ggggggggaa aaaaaagggg ggggaaagga aaaaaagggg gggggggggg aaaagggggg 240
 ggggggaagg gggggggggg ggggggggaa gaaaaagggg ggggaaagga aggggggggg 300
 ggaaaggaaa aaaaaggggg gggggaaaaa agggaggaag ggggtggtggc acaagggggg 360
 ggagaagaag ggccccgatg ttgtgggcca aaaaaagcac caaaaggaaa aggggggaaa 420
 ggggggaaaa aggggggggg aaaaaggggg aaaaagggaa aaagacaaca gcggggggcg 480
 gggggaacca gcagggggg 499

<210> 7762
 <211> 506
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-076-Q1-N6-D8
 <400> 7762

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 tgggtgagttt ggcaaaacca ggtggttgaa tggcaacaat tggtgccgtt gtaaaaaggg 180
 gccacacctt ggccttacct gccaggtgaa ccgcaaccac cggtggtggg tcaaaaaagc 240
 cacaaggctt acattaactt acttgcttaa tgggaataat tggtgcttct tgaaataaac 300
 cacaaaattc aatgcttctt attgggtgaa tggaaaaaaa tgcttggggg aggccacaac 360
 ttaçttgctt aatgggaaat ggtggtgcca ataaaccgcc aaattcaatg ccaccçgttg 420
 gttgaatgga aaaaaccggt gtttçttaaa gaattccaca agggttgctt acccaaattg 480
 gtggaattgg tgggçcçtta tgtttt 506

<210> 7763
 <211> 267
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-076-Q1-N6-D9
 <400> 7763

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 agçtttgaaa çttçgtçttg ttgacgcaaa ccatgcaagg aaccgatttg gcaagçttca 180
 gttçttgatç ttçttçtttg cçctcagçtg gttgçtgçtg ccacacttçt tçttgçggca 240
 gttaacagcc çtgggggtgca gccgtgç 267

<210> 7764
 <211> 532
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-076-Q1-N6-E1
 <400> 7764

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 agaacactgt tgagtttgçt aaagcaagtt ggttgaaatgg cagcaattgt tgcagttgta 180

agaggggtgcc agcgttaggc atagcgtgca ggtagaacgg caacaactgt tgttgtgtca 240
agaaggcagc agggctcaca tcagctagct ggctgaatgg tagtagttgt tgctgctgta 300
aataagcagc agagttcaat gctgctagtt ggttgaatgg aagaaattgc tgggggtagg 360
cagcaactag ctggctgaat ggtaattggt gttgcaaata agcagcagag ttcaatgcag 420
ccagttgggt gaatggaaga aactgatggt gctgagagta tgcagcaagg tttgctagca 480
caagttgttg tagttgttgt gccctgatgt tttgtgccac caaatggacc aa 532

<210> 7765

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-E10

<400> 7765

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ccccaaaaaa aaaagaaacc cccaggaaaa agggaaacccc aaaagaaaaa cccccaagg 120
caaaaagggg ggaagcaaaa attgggcccc ggcccccaac ccccggaat tggggcccc 180
aaccgccgaa aagggggggg aaaagccctg gcaaaccctc ccaaagcggg acccggggaa 240
aaaccccaaa ttcacaaaaa tttggggccc aaaaccccg ggggggttca aaaaggagcc 300
aacccccccc gttttggggg cccaaaaaat ccccccaaag ttaaaaaaaaa aatggggggg 360
gcccgccctt ggtttaaacc cccacccac ccgggaaaaa tccaccccc ccccaaaaa 419

<210> 7766

<211> 551

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-E12

<400> 7766

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acttagaaca aatcctgaca ggagtaacag catccatcga tccacagtcc atgctgggtg 120
atgcatgggt ctgctggagc cgaggatgaa cacaggacta acaactgaca cagagcgacc 180
ttgcaatcaa aaacacagat gggcaacaac aaacgagacg aacgaagata aaccctctgg 240

actagggttaa acatcacggt agcgaacagg ataacttggc cgcgcgggcc ccaccgctca 300
gttcctccag ttcccgtcgg agttgccgta gccgccgcca cggttgccac cgccgtagcc 360
gccaccacca ccaccgtagc caccgccgcc accgtagccg ccgccgccac cgccgtagcc 420
gccgccgcca tcacggcgcc cgccaccgcc gtagccgccg cctccacggc caccaccgta 480
gccgccgccg ccgcctccac ggccgccgcg ggactggggc tcgttgacgg tgatgttgcg 540
gccgtccagc t 551

<210> 7767

<211> 524

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-E2

<400> 7767

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ttattgaact ataactcata agaaatctaa aagagggcac caccaatgat gggttgttgg 120
tagaatgctg ctgggtttgt caaagcaagt tggttgaatg gcagcaattg ttgcagttgt 180
aagaggggtgc cagcgttagg cgcagcgtgc tggtagaacg gcaacaactg tggttgtgtc 240
aagaaggtag cagggctcac accagctagc tggctgaatg gtagtagttg ttgctgctgt 300
aaataagcag gagagttcaa tgctgtcagt tggttgaatg gaagaaattg ctgggggtag 360
gcagcagata gctggctgaa tggtagtgtg tgttggtgca aataagaagc agagttcaat 420
gcagctagtt ggttgaatgg aagaaactgc tgttgctgag agtaggcagc aaggtttgct 480
agcacaagtt gttgtagttg ttgtgccctg atgttttgtg ccaa 524

<210> 7768

<211> 523

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-E3

<400> 7768

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caggggtccag aatgtaacca cagataatga taagtcaggt aggtacgaca cccagcaacc 120

ccttgcacgc tataagcaaaa gccagctcaa gccaggtgaa tgtctcggta gcaatccttt 180
 ggtgatacac ttcttttccg atttaagttg agatacagta gggttccgtc tccaaagcca 240
 aggaagttac ttggggccaa catccttaaa cgcgagatc tgctcctccc ccatcgcaaa 300
 ctggacagtc acaacaagat ccttcccgtt ttcgaaccct tccttaatct gggccacaag 360
 agtctcatca gttgggagtc taagatcatc cttagtgttg ccatctgaag taagaaggct 420
 cacaaatcca tcctcagaaa tatcaatcag ctgatactca gtacggttca catgcggaat 480
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<210> 7769

<211> 516

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-076-Q1-N6-E7

<400> 7769

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 caatttggtt catcatgact aacagtaggg ggtgactggt tagttacaac ttacaacaaa 120
 tactttacac ggcaactaagc tcctagaaga actgccgctg catcacatta cgaatacaca 180
 aactacaac agtcgtacaa gaaatttccc aaatcactgg aagtcttaac gcgcaaaatc 240
 ggcgttagat agtactgtat caccgaaaca gtgcgggtac atgggaatgc tccaggacat 300
 tccccttggc gaaggcagcc caccagcgtc tcagcagtaa aacatgacac gtttcacgtt 360
 ctcttgaga gcaggtaggg gcctgacctc gacactcccg gcccctctcg tgctgctgctg 420
 tgccgcaccg ggtggggggc cacgggcacc gctggccagt gaccgctgt ccgaggtgtc 480
 tggtccatg tagaagcgag ctcggaaggc tgccag 516

<210> 7770

<211> 526

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-076-Q1-N6-E8

<400> 7770

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 gctgctgggt ttgtcaaagc aagttggaca aagggcagca actggtgcag ttgtaagagg 180
 gttgcggggg tagccacaaa ctgctggtag aacggaagca attgttggtg tttcaaaaag 240
 gaagtggggc ttgtttagc tagctggcca aatggtagta gtatttgctg ctggaaataa 300
 gcagaggggt tcagtgcggc caattgggta aatggaagaa attgttgctg ctgagagtag 360
 gcagtagcta gctggctgaa tggtagtagt tgttggtgtt gtaaataagc agcagggttc 420
 agttagaca gttggttgaa tggaagaaat tgttggtgct gagagtaggg agaaagggtt 480
 gccagagcta cttggctgat cactggtagc acgagttgtt gcagct 526

<210> 7771
 <211> 521
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-076-Q1-N6-E9
 <400> 7771

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 tgatgggttg ttggtagaac gctgttgggt ttgtcaaagc aagttgggtg aatggcagca 120
 attgttgctg ttgtaagagg gtgccagcgt taggcgcagc gtgcaggtag aacggcaaca 180
 actgttggtg tgtcaagaag gcaacagggc tcacatcagc tagctggctg aatgggtggta 240
 gctgttgctg ttgtaaataa gcagcagagt tcaatgctgc cagttgggtg aatggaaaaa 300
 attgctgggg gtaggcagca gctagctgac tgaatggtag ttgttggtgc aaataagcag 360
 cagagttcaa tgcagccagt tgggtgaatg gaaaaaactg ctgttgctga gagtaggcag 420
 caaggtttcc tagcacaagt tggtgtagt gttgtgcctt gatgttttgt gccacaaat 480
 gcaccaaagg taactgctgt aatagggtg acggttggtg g 521

<210> 7772
 <211> 529
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-076-Q1-N6-F1

<400> 7772

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gctgctgggt ttgtcaaagc aagttggaca aagggcagca actggtgcag ttgtaagagg 180
gttgcggggt tagccacaaa ctgctggtag aacggaagca attgttggtg tttcaaaaag 240
gaagtggggc ttgtttagc tagctggcca aatggtagta gtatttgctg ctggaaataa 300
gcagaggggt tcagtgcggc caattggta aatggaagaa attgttgctg ctgagagtag 360
gcagtagcta gctggctgaa tggtagtagt tgttggtgtt gtaaataagc agcagggttc 420
agtgtagaca gttggttgaa tggagaagaa tgttggtgct gagagtaggg agaaagggtt 480
gccagagcta cttggctgat cactggtagc acgagttgtt gcagctgtt 529

<210> 7773

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-F10

<400> 7773

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ggggaaaaaa aaaaaaaac ccgggggggg gggggggggg aaaaaataa aaaaaaagg 180
ggccccgggg gggggaaaaa accggggaaa aaaagggggc cgggggaaaa aacaaaagg 240
gggggccccg tttgccctaa aaaaaaaact ttgggggggc cccaacgcca aaccaacca 300
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ggggaaaaaa gggggcacca ctgaaaaaaa aaaggggggg 400

<210> 7774

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-F11

<400> 7774

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 tttttaaaaa tgtttttttt tttttttggg gggggggggg gggttttttt taaaaaaagg 180
 ccctttttta ttgggggggg ccaaaaaaaa aggggaaaaa accggaagg gcaacaatgg 240
 caaaaagagg gaggaacgag ggcgcacacc agggaggggg cggaaggaa gaa 293

<210> 7775
 <211> 529
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-076-Q1-N6-F12
 <400> 7775

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 gtggtaggat tcgggaaagc atgttggcta aatggcagca attgttggtt ttgtaagaag 180
 gcaacaatgt ttgccacatt atgtgggtag aatggcagca attgttgctg ttgcaagaag 240
 gcattaatgt ttcccacaac ctgtgggtaa aatggcaaca attgttggtt tcgcaagaaa 300
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 gcagggttca cccagctag ttgattgaat ggaagaaatt gttgttgctg gagataagca 480
 gcaagggttcg ctgcaactac ttgattgatt gttggttagca actgttggtt 529

<210> 7776
 <211> 502
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-076-Q1-N6-F2
 <400> 7776

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 aatgcgagta accccaatca gacagacca cgcttatggc tggatttgac aacatcacga 120
 tggtatcttc acatcggctt tgggttgaga tgatatccag actcatgcgt aatcctttac 180

aatgatattc ttagtgtcca ttgccagcat ataatgcca ctgaggtgtg gttggacagg 240
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<210> 7777

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-076-Q1-N6-F3

<400> 7777

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<210> 7778

<211> 512

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-F4

<400> 7778

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 acgccgctga tgggtggccag gttgcaactg gcctccgtga cgagggtggc ggcgaatccc 180

ctctgcacct cccgcgggca gcccggcagg tcctctaggg gccctccag ctgcgcgtcc 240
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<210> 7779

<211> 521

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-F5

<400> 7779

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 aagagcccc accaatgatg gaatgctggg agaacgctgg tgggtttggc aaagcaagtt 180
 ggtatgaatg ccaccaattg ctccacttgc tagagggtag ccagccttcg gcgcacgtg 240
 ctggtagaac ggcaacctct gaccttgat caagataggt agcagggctc acaccatctt 300
 gctggctgaa tggtaagagc tgttgctgct gtaaataaac aggaaaattc aatgctgcca 360
 gttcgttgaa tggaagaaat gctgggggta ggcagcatgt aactggctga atggtagctg 420
 ttgatgttgc aaataaaaag caaaaaacaa tgcattttgt tgagttgaat ggaaggaaac 480
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<210> 7780

<211> 509

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-F6

<400> 7780

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ctgctggggtt tgtcaaagca agttgggttga atggcagcaa ttgttgctagt tgtaagaggg 180
 tgccagcggtt aggcgcagcg tgctggtaga acggcaacaa ctgtgggttg atcaagaagg 240
 tagcaggggtt cacaccagct agctggctga atggtagtag ttgttgctgc tgtaaataag 300
 caggagagtt caatgctgcc agttgggttga atggaaaaaa ttgctggggg taggcagcag 360
 gtagctgggt gaatggtagt tggtgttggt gcaaataaga agcagagttc aatgcagcta 420
 gttgggttga tggaagaaac tgctgttgct gagagtaggc agcaagggtt gctagcacia 480
 gttgttgtag ttgttggtgc ctgatgttt 509

<210> 7781

<211> 531

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-F7

<400> 7781

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 attgaagtat aactcataag caatctaaaa gagggcacca ccaatgatgg gttgttggtg 120
 gaacgctgtt gggtttgtca aagcaagttg gttgaatggc agcaattggt gcagttgtaa 180
 gaggggtgcc gcgttaggcg cagcgtgcag gtagaacggc aacaactggt gttgtgtcaa 240
 gaaggcaaca gggctcacat cagctagctg gctgaatggg gtagctggtt gctgttgtaa 300
 ataagcagca gagttcaatg ctgccagttg gttgaatgga agaaattgct gggggtaggc 360
 agcagctagc tgactgaatg gtagttgttg ttgcaaataa gcagcagagt tcaatgcagc 420
 cagttgggtt aatggaagaa actgctgttg ctgagagtag gcagcaaggt ttcctagcac 480
 aagttgttgt agttgttgtg ccttgatggt ttgtgccaac aaatgcacca a 531

<210> 7782

<211> 504

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-F8

<400> 7782

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ggccaagatt atcatagata ctggaactga tatttcgact cgttttgcac aatagatgat 120
 acatggaatg taagagaaaag gcagaaacca gtgatggcat atacatttct acattattaa 180
 ccttgagatg ttattggaga taatcatggt aataactatc actggggcat ggtctgtaga 240
 ttttactgaa gggagtgaca acactogagt acctactggg gcctcctcct cgttcttctt 300
 atggttgag actccgaagg ccttgaccgc ctacttgacc caggctcgcc caatataaca 360
 gctgtgggtgc tagaagttga cagctgttcg acagatgatg actgctgagg agctgcaaga 420
 accatctgtg cagcattgtc accgttagaa tgtgacaact ggatttggtt gctgctctca 480
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<210> 7783
 <211> 521
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-076-Q1-N6-G1
 <400> 7783

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 aacgctgctg ggtttgtcaa agcaagttgg ttgaatggca gcaattgttg cagttgtaag 180
 aggggtgccag cgtaggcgc agcgtgctgg tagaacggca acaactgtgg ttgtatcaag 240
 aaggtagcag ggctcacacc agctagctgg ctgaatggta gtagttgttg ctgctgtaaa 300
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 gcaggtagct ggctgaatgg tagttgttgt tgttgcaa atagaagcaga gttcaatgca 420
 gctagttggt tgaatggaag aaactgctgt tgctgagagt aggcagcaag gtttgctagc 480
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<210> 7784
 <211> 463
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-076-Q1-N6-G10
 <400> 7784

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 aaaaaattag gcatatgca tgcactgcag ggnaccaccc tgcacgggtt cacgcacgca 120
 aactgttgt acagagacac ctatggtggc cgaaagtcag cactcgttgc acctatcaga 180
 cgggtcagcg accaggccta gcctaactct tgaactggca caactgttaa caagttaaga 240
 aggccgcacg ccaaatatga gataactagt tctatggtac tcggtggggg tgctgccaat 300
 aagccccaca actgaatgct cttagcggc tgaatggaaa acattgctgg aggaaggcac 360
 ccactacttg cctgaatggg aattgtggct gcatataagc cccacaggac actgcatgca 420
 agtggtcgaa tggaacaaac tgatgtcgct gagagtatac cac 463

<210> 7785
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-076-Q1-N6-G11

 <400> 7785

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 atttttagga ggccacatac ttttatccaa aaaacttatt tattgaaaac aactaataag 120
 caatctaaaa gagggcaccg ccaatgatgt gggggggggg gaaggcttct gggtttgtca 180
 aagcaagttg gacaaagggc agcaactgtt gcagttgtaa gaggggggag gggtttagcca 240
 caaactgggg ggaaaacgga agcacttgaa gatgtgtcaa aaaggaagcg gggcttggtg 300
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 c 361

<210> 7786
 <211> 516
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-076-Q1-N6-G12

 <400> 7786

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cagtataaat cataaaaaat ctagaagatg gcaccaccaa tggtagggcga ttgcaataag 120
 gtggtaggat tcgtgaaagc atgttggcta aatggcagca attgttggtg ttgtaagaag 180
 gcaacaatgt ttgccacatt atgtgggtag aatggcagca attgttgctg ttgcaagaag 240
 gcattaatgt ttcccacaac ctgtgggtaa aatggcaaca attgttggtg tcgcaagaaa 300
 gaagcaatgt tttccacagc ttgcagatgg aatggcagaa gctgttggtg cagtaagaag 360
 gcatcagggc tcccgacaag ttgggttaaat ggtagtagtt gttgtgcctg caagtagaca 420
 gcagggttca cccagctag ttgattgaat ggaagaaatt gttgttgctg gagataagca 480
 gcaaggttcg ctgcaactac ttgattgatt gttgggt 516

<210> 7787
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-076-Q1-N6-G2
 <400> 7787

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 gccaaaaaat tcattatggg attacaacta aaaagcaatc taaagggggc cccgccaagg 120
 aggggttggg gggagaaggg tggtagggttt ggaaaagcaa gggggacaaa gggcagcaac 180
 tggtagcagtt gaaaaagggg tgggggggta gccacaaact ggtgggaaaa cggaagcact 240
 tgttggtggg taaaaaagga agcgggggctt ggtgtaacta gctggccaaa ggggagaagt 300
 atttgctggt ggaaataaac agaggggggtc agggcgccca attggttaaa tggaaaaaaa 360
 gttgctgctg aaagaaggca atacctagct ggctgaatgg gagaagttgt tggtagctgca 420
 aaaaagcagc agggttcaat ataaacaggg gg 452

<210> 7788
 <211> 517
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-076-Q1-N6-G3
 <400> 7788

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ttattgaact ataactcata agcaatctaa aagaggcacc accaatgatg ggttgttgg 120
agaacactgt tgggtttgtc aaagcaagtt ggttgaatgg cagcaattgt tgcagttgta 180
agaggggtgcc agcgtaggc atagcgtgca ggtagaacgg caacaactgt tgttgtgtca 240
agaaggcagc agggctcaca tcagctagct ggctgaatgg tagtagttgt tgctgctgta 300
aataagcagc agagttcaat gctgctagtt ggttgaatgg aagaaattgc tgggggtagg 360
cagcaactag ctggctgaat ggtaattggt gttgcaaata agcagcagag ttcaatgcag 420
ccagttgggt gaatggaaga aactgatggt gctgagagta tgcagcaagg tttgctagca 480
caagttgttg tagttgttgt gccctgatgt tttgtgc 517

<210> 7789

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-G4

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ctgccacca tggggatgcg tgacacatta ttacccaatc atcgccgcta aatgactcaa 120
ctagctagct agccagcggc tatactacag cacatagttt cttcaggggg ggacaccccc 180
ggcagcagcg taggggtatg gagtcggctg ctgcaggccc cacatcgccg tcagttgctg 240
cgctatttgc gccgccaaca gccccgcgac ctggccgctt tgcggctgct gctgcaggat 300
ggactggagg accaaacca aaatcgctg gtaccggggc tgcggctcca cctgctgag 360
ctggtggcaa cactgctgcc gcaaccactg gcaactgagc gagcagtagg gcgtccccct 420
cgggctgcac tgatgcctca aaaactcgac ccactggccc 460

<210> 7790

<211> 521

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-G5

<400> 7790

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actataactc ataagaaatc taaaagaggg caccaccaat gatggggttg ttgtagaatg 120
ctgctggggtt tgtcaaagca agttgggtga atggcagcaa ttgttgcaagt tgtaagaggg 180
tgccagcggtt aggcgcagcg tgctggtaga acggcaacaa ctgtgggttg gtcaagaagg 240
tagcaggggtt cacaccagct agctggctga atggtagtag ttgttgctgc tgtaaataag 300
caggagagtt caatgctgtc agttgggtga atggaagaaa ttgctggggg taggcagcag 360
atagctggct gaatggtagt tggtgttggt gcaaataaga agcagagttc aatgcagcta 420
gttgggtgaa tggaagaaac tgctgttgct gagagtaggc agcaagggtt gctagcacia 480
gttgttgtag ttgttggtgc ctgatgtttt gtgccaataa a 521

<210> 7791
<211> 240
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-076-Q1-N6-G6
<400> 7791

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taaaagaggg cccaccaat gatggggttg ttgtagaacg ctgctggggtt tgtcaaagca 120
agttgggtga atggcagcaa ttgttgcaagt tgtaagaggg tgccagcggtt aggcgcagcg 180
tgctggtaga acggcaacaa ctgtgggttg atcaagaagg tagcaggggtt cacaccagct 240

<210> 7792
<211> 455
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-076-Q1-N6-G7
<400> 7792

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gccccattgg cgagtccttc tcatatgtaa tctaaaagat ggccccccca accatggggtt 120
gctgcaaggc agggttcatc aaaaaaac ggttgtagtg caacaattgt tggttgctgc 180
gcaggaaggg accaccaat gggttacca ctgccaatgg attaaaaaac tggttgccct 240
gttgtaggtc cccaccaaag tttgacacac cccgttggtt gaatggaaac aactgttgta 300

agtaggcaac agggtttgcc acaactagct gagtcaaagc tgggtacaatt tgttgcaaca 360
 accgttggtg taggtaccta ggggcattgc ccaccccgag cgggctaaat aaaagaaatt 420
 gtaggtaaac cgcagggttc accatggcta gttga 455

<210> 7793

<211> 515

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-076-Q1-N6-G8

<400> 7793

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 gtggtaggat tcgtcaaagc atgttggtc aatggcagca attgttggtg ttgtaagaag 180
 gcaacaatgt ttgccacatt atgtgggtag aatggcagca attgttgctg ttgcaagaag 240
 gcattaatgt ttcccacaac ctgtgggtaa aatggcaaca attgttggtg tcgcaagaaa 300
 gaagcaatgt tttccacagc ttgcagatgg aatggcagaa gctgttggtg cagtaagaag 360
 gcatcagggc tcccgacaag ttggttaa at ggtagtagtt gttgtgcctg caagtagaca 420
 gcagggttca cccagctag ttgattgaat ggaagaaatt gttgttgctg gagataagca 480
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<210> 7794

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-G9

<400> 7794

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 tttttttttt tttttttttt ttttttaaaa gggaaatggc cccgaggaaa cgcttctggg 120
 tggaaaaagc ccggaagaat tacagccaaa aggggggggc caggaccccc aattcagggg 180
 gaaaacagaa ccggacgaaa agacccgggg ggttctggtt tcgggggcct aacttceccg 240
 gtctggcccc ggaaggaggg cccccatca tggggggggg gcccgggggc atctaaaact 300

atcagttcaa ggggagccga ggccacgggc gggggttatt gggggccggg gaggggggtt 360
 acccaagcgt tgcggagctg gagcccaacg gggggcccaa aacacttggc ccgcgcgagg 420
 gaaaagggcg tgcaaaaccc ggccg 445

<210> 7795
 <211> 497
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-076-Q1-N6-H10
 <400> 7795

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 cacaatgcat tattcaaacc gagaacacac aaaaaaaaaac ttcccacaaa cacttggcta 120
 tgcgacacac ctcaaacaat gtgttcagcc agggccagga tcttgagggg cttcttcttc 180
 ctgagctcgg gggggacggg gccaaaaacc cgggtgccga tcagctcccc ctttttgttc 240
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 atggggggcac ggacgaccac cccgtaaact acgtctcctt tcttgacctt gccacgaggc 360
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<210> 7796
 <211> 547
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-076-Q1-N6-H12
 <400> 7796

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 gacagcgaat ggaatcgctc ttttttcaga agggttatgc atatgcacaa gctggtaagc 180
 tagcttgctt gatccgtaaa ccatacacta cattacagct gcagatggat cgtagatttg 240
 ggccgctgtg gcatgatcat gccagccca ggggtggcaca ccttaagctg cgctgtcca 300

gagaaacgtc aggcctggct cactctggtc gcgatggcag aagcatactc ggagatcggt 360
ggatcaggtg actgcctgag gtggacgatg acggggagca gctccgaaga ccgtaggaag 420
ttcctgcaga tggcgtggtc gcacatcttg cgcagggcga agagcacgat tcttagcgga 480
gattcgggtta gagcatctcg tctgttgggg ctcagggcaa cagtagagta actgccgacc 540
atcttca 547

<210> 7797

<211> 531

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-H2

<400> 7797

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cagggttcat caaagagaac tggttgtatg gcagcaattg ttgttgctgc tgcaggaagg 180
tagcgaccaa tgggttagcc actgccaatg gattaagtaa ctgttgctgc tgtttaggt 240
acgcagcaga gtttgacaca gccagttggt tgaatggaag caactgttgt aagtaggcag 300
cagggtttgc cacagctagc tgagtcagag ctggtacaat ttgttgctgc aactgttgtt 360
gtaggtacgt aggtgcattg cccaccgcga gcgggctaga tgaaagtagt tgtaggtaga 420
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gttgctggta tgcagctacg ttcgccaaag caagtgggtt ggatgcaagc a 531

<210> 7798

<211> 531

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-H3

<400> 7798

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atthttgcacc taaccgccag caaaacacac taacgtcacg gttcattctc gcaacaaaaa 180

actggatttg acaccatttt ggacaacgaa aacacgagga atgctacaca ccacacaaag 240
aatagacaga ctcagccatg gttccgaggg ctggagagtg gagatgaccg aaagctggca 300
caagaaaggt tgtgatctga agatccacca ctgcactagg caatgccatt gtccggggta 360
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ttcgttcctt tttttcacct gccttatgaa agcaaattgg tgcgccttg tgagtgccag 480
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<210> 7799

<211> 511

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-076-Q1-N6-H5

<400> 7799

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tccttggcgc cagaaagctg actgggagac gccacctaga tcatctcgaa agcctcagt 180
ttaggcggct cctcttcgac cacatgttct tctccttcaa cgagctcctg ctcagtagtc 240
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gtttccagag gccaatctgg ttgggtacaa gtattccaag tgtgccagaa atgaaagcca 480
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<210> 7800

<211> 532

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-H6

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acaccactaa tgtcattgct gctgcatgga ttattttggt agtatgagt gtacaagccg 180
cacattgatg gtaggtattg tgctgctgct aagattgccca ccgcactttg agtagcttgt 240
tgagatccac ataactcaca tgggtgttgtg tgttgctcct cctggattat ggattgaacc 300
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accaaagggc tgcactgctg ccttaggaat tcatgacaat tttttagatt tgagctactg 480
ctatagtagt tatagctgca ccttgtagtc tgttgctgct cctggcaatg ac 532

<210> 7801

<211> 511

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-076-Q1-N6-H7

<400> 7801

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agatttccca aatatcatga atcagtagta gggcggaatg gcagcggaga cccacaggg 180
gttggtgcgg tagctgggca gctggtactg gtagagtcca cccatggccg gcatgttctg 240
cgccatcatc atggccatgg ggttgagacc ctgggctgcc agcagctgct gctgctgctg 300
catcaaagct ggctcgtaca ggctgctgct ggcggcagcg gcacgctcaa gctgcatcat 360
catctgcagc tgctgcgcga cggactgcac gtccatcatc ctcatctgct gctggcagca 420
ctgttgccgg agcggctgga acatggcgct cggctgcca caccggcgt agtagggcgc 480
cgccgccagc gggctgcact gcggctgcct c 511

<210> 7802

<211> 505

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-A1

<400> 7802

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 gttgggtttg tcaaagcaag ttggttgaat ggcagcaatt gttgcagttg taagaggggtg 180
 ccagcgttag gcgcagcgtg caggtagaac ggcaacaact gttgttggtg taagaaggga 240
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 gcagagttca atgctgccag ttggttgaat ggaaaaaatt gctgggggta ggcagcagct 360
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 ttgaatggaa aaaactggtg ttgctgagag taggcagcaa gggtttctag cacaagttgt 480
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<210> 7803
 <211> 512
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-077-Q1-N6-A10

 <400> 7803

aagatagaaa ctctctaate cacacgcca tacatttgcg cataaatctt gaatgttaca 60
 aatgatcaat ttgtgacaat acatcaaacc aaattggtga aaccataag gccttggttg 120
 gttgcatagg taggagggga ttgagggaaa gtaaaccocat ttctattcag ttttaagaga 180
 tttgattatc tctaatecgc ttcaatccac tctaaccga gaacacctca aatcgggggc 240
 tgtaactcta gctacttagc atctcaagga catttcccat ggtaggccga cgtttcggat 300
 cccgetcaat gcacttcagt ccgacctctc tgcacctatt aatcttcac agctgagact 360
 cgttagctag cgccggatca aataaccctt tcgctgatgt aatcatctca tcaactgaac 420
 cccattccgg taaatcaacg aaagggtgaag ctctcctgcc ggtaatgac tcaatgatga 480
 tgattccaaa agagaacaca tcagacatca tt 512

<210> 7804
 <211> 535
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-077-Q1-N6-A11

<400> 7804

ggtgtgtttt tttaaaaagt ctttcttatt ctgggagccc aaactcagac aaaaacttta 60
ttattgaact ataactcata agaaatctaa aagagggcac caccaatgat gggttgttgg 120
tagaatgctg ctgggtttgt caaagcaagg gggttgaatg gcagcaattg ttgcagttgt 180
aagaggggtgc cagcgttagg cgcagcgtgc tggtagaacg gcaacaactg tggttgtgtc 240
aagaaggtag cagggctcac accagctagc tggctgaatg gtagtagttg ttgctgctgt 300
aaataagcag gagagttaa tgctgtcagt tggttgaatg gaagaaattg ctgggggtag 360
gcagcagata gctggctgaa tggtagttgt tgttgttgca aataagaagc agagttcaat 420
gcagctagtt ggttgaatgg aagaaactgc tgttgcctgag agtaggcagc aaggtttgct 480
agcacaagtt gttgtagttg ttgtgcctg atgttttgtg ccaataaatg cacca 535

<210> 7805

<211> 357

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-077-Q1-N6-A2

<400> 7805

ccttgttgtg gggggggggg gttccttttt gggggggggg ggaaaaccaa acgggttttt 60
tgccccctctt ttttgggggg gggggcccca ggagatttcc ggggggggtgt gaatcggttt 120
ttggggcaaaa tggaaggggg gaggcctagg gggggatttt ggaaaaaccc gggatattcg 180
ggagggggcc ggggggggta caaaaccccc gggggggggg ggggggttaa cggggggata 240
aaaagggggg aaaagggggg gncttggggg aaaatttttt ttggggggga aaaattttca 300
aaaaaagggg gggtagaaat gggggggggg aaaaaaagg ggtttggggg gggggggg 357

<210> 7806

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-A3

<400> 7806

gcgtatgaac agctcgcttt cgattgcatt attattgatt tgttcttgta caaaatacat 60

cggtaccaca attacatcaa ggatgaaacg aaaaaggggg gctgcaacat actatcagat 120
ccctccatcc agtaaatttt gtaccttcag ttacaggaca cacggaggta tgatttccag 180
tcctacgacg acaacaacaa caacaacagg agacacaaga aatagctact acatctatta 240
tgat 244

<210> 7807

<211> 528

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-A4

<400> 7807

aaatctcaat caatatattg attatttcta ggaaacacat gtcggtatga gggcaccatt 60
gtcgagtaca tctcatatgt aatctaaaag atggcacctc caacgatggg ttgctgcaag 120
gcaggggttca tcaaagagaa ctggttgat ggcagcaatt gttgttgctg ctgcaggaag 180
gtagcgacca atgggttagc cactgccaat ggattaagta actggtgtcg ctggttagg 240
tacgcagcag agtttgacac agccagttgg ttgaatggaa gcaactgttg taagtaggca 300
gcagggtttg ccacagctag ctgagtcaga gctggtacaa tttgttgag caactgttgt 360
tgtaggtacg taggtgcatt gccaccgcg agcgggctag atgaaagtag ttgtaggtag 420
acggcagggt tcacatggc tagttgactg agcactggca taaactgttg cagctgttgt 480
tggtgctggt atgcagctac gttcgccaga gcaagtgggt tggatgca 528

<210> 7808

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-A6

<400> 7808

ccaatcatct tttttcctta tatattattc ctttccattt caatggttca ttcaggatcat 60
tgctcacact gccacccatg gtgatgggtg aactacgtt actcatcgcc gctaaatgag 120
taaactagcg agctaggtag ctagtcagcg gctccattac attattacta cagta 175

<210> 7809
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-A8

<400> 7809

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aacaagggaa gagccggaca aaggccggct gtgaacaagg gaaaaaccgg ggaggggggc 60
cccgaacgaa aggggacaga aaggggaaaa ggggccaaagg gggcacgaac aaggcggggg 120
ctgggaggag agccccacgg ggggacccgg gagcaagggc cgggccacaa ggggggcaaa 180
agggggccgg gggggaagcg ccaccagggg ccaggagggg ccagggaatg ttggggaccc 240
agcgcacccc gggagctggg gctaagaggg aataggggaa ccggttaaag cggggtaagg 300
gcgcctcaag ggcgagggca cgggggggga aagggggatt aagggcccg acccgggggg 360
ggacccgggg acccccgggg gagtccgggc ggggccccgg gggggcacia acttagccga 420
aacagggggg gaaa 434
```

<210> 7810
 <211> 530
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-A9

<400> 7810

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cacattagaa tctggaaatg taacttctta tttctggttg gccacataca tcattcaaaa 120
actttattat tgaattacaa ctaataatca atctaaaaga gggcaccacc aatgatgtgt 180
tggttgtagg aggctgctgg gtttgcataa gcaagttgga caaagggcaa caattgttgt 240
agttgtaaga ggggtgcggg gttagccgca aactgcttgt agaaaggcag caactgttgc 300
tgtgtcaaga aggaagcacg acttgctgca gctagctcgc taaatggcag tagtatttgc 360
tgctgcaaat aagcagcggg gttcagtgcg gccaatggg taaatggaag aagttgttgt 420
tgctgagagt aggcagtagc tagctggcta aatggtaata gttgttgctg caaataagca 480
gcaggggttca gtgtagacag ttgggtgaat ggaagaaatt gttgttgctg 530
```

<210> 7811
 <211> 478
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-B10

<400> 7811

cagaaatata ttgagataaa tctcaatcaa tatattgatt atttctagga aacacatgcc 60
 ggaatgaggg caccattatc gagtacatct cataatgtaat ctaaaagagg cacctccaac 120
 gatgggttgc tgcctcgaca agacaggggtt tatcaaagag aactgggtgt atggcagcaa 180
 ttgttgctgc tgtaggaagg cagcgaccaa tgggttagcc actgctagtg gattaagtaa 240
 ctgttgctgc tggttaggt acgcagcaga gtctgacata gtcagttggt tgaatggaag 300
 cagctgttgc aagtaggcag caggggttgc cacaactagc tgagtcagag ctggtacaat 360
 ctgttgcaac aattgttgtt gcaggtatgt aggtgcattg gccacagcga gcgggctaga 420
 tgaaagcagt tggtgctgtt gtaggtaggc ggcaggggtc accatggcta gttgactg 478

<210> 7812
 <211> 530
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-B2

<400> 7812

gaactaaaaa gtactttctt atttctggga agccacaaac atcagacaaa aactttatta 60
 ttgaactata actcataaga aatctaaaag agggcaccac caatgatggg ttgttggtag 120
 aatgctgctg ggtttgtcaa agcaagttgg ttgaatggca gcaattgttg cagttgtaag 180
 agggtgccag cgtaggcgc agcgtgctgg tagaacggca acaactgtgg ttgtgtcaag 240
 aaggtagcag ggctcacacc agctagctgg ctgaatggta gtagttgttg ctgctgtaaa 300
 taagcaggag agttcaatgc tgtcagttgg ttgaatggaa gaaattgctg ggggtaggca 360
 gcagatagct ggctgaatgg tagttgttgt tgttgcaa atagaagcaga gttcaatgca 420
 gctagttggt tgaatggaag aaactgctgt tgctgagagt aggcagcaag gtttgctagc 480
 acaagttggt gtagttgttg tgcctgatg ttttggtcca ataaatgcac 530

<210> 7813
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-B3

<400> 7813

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aaatggttaa ttcaggtaat ggctaaaact gacactgccca cccaggggga tgcgggacaa   60
attattacta aatcatcgcc gttaaaggac taaactagct agctagccag gggttatact   120
acagaaaata gttttttaag gggggggacac cgccggcaga agcgtagggg catggagtcg   180
gttggtgaag gccgaaaatc gccgtaagtt gttgggttat ttgcgccga aaaagccccg   240
gaacctggcc gttttgcggt tgttggtgca ggatggactg gaggaccaac ccaaaaatcg   300
cctggaaccg gggctgcggt tccacctgcc tgagctgttg gaaaaactgt tgccgaaaca   360
actggaactg aggcaagcag tagggcgctc ccgtcgggct gaac                       404
  
```

<210> 7814
 <211> 536
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-B9

<400> 7814

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aggaggcaac tgatcaattc aacaccttta ttgcaacaat tcaattaatc agctacaaat   60
tgaataaaaa ctttatgcgc tcctttcgac ttatatagc attcagctaa ttgttgagtc   120
aatcacagga gaagttcgcg aaaaactatc tctatcaact ccatgctaga tagcctatag   180
taacaatccc aacacaaaaa aggaacaatt tgttcaactc ttaacgcaa ccttgctcaa   240
cacatggcca tgcataatc acccctcaat tgctatctgt gaagtctcg tcaatgacat   300
ccccatcatt ctgcgttggc ccggtaccag gcgtaggtcc ggccctcagc ccaggagtag   360
gcccagcagc actggcacca ggctggttat acattgctg gccaatctgc atcacctcct   420
ggttcagagc agccatggca tctttcatac tctgtgttga tccaccagaa atggcgctct   480
tgagctcctg gagcttcaca tccaccttct ctttcacagg agcggggact ttgtcc       536
  
```

<210> 7815
 <211> 463

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-077-Q1-N6-C1
 <400> 7815

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ggccaacaaa aaaacaaagg ggccgatgga ttcattaaaa ccaaaacttt attaggaccc 60
cgcataaatt atggggcaaa ccacaaagga aaaggggggg cgccttacgg gcttattccc 120
tatatagaag gggggagagg ggtagggggg atttcccaaa aatgaagaaa taacagtagg 180
ggggaagggc agcggaacc ccacaggggg tggggcgga actgggcaac tgggactggg 240
agagcccccc caggggcggg atgttctgcc ccaatatcaa ggccaagggg gtgagaccct 300
gggctgccaa aaactggtgg tgctgctgca aaaaaaatgg ctcaaacagg gtgttggtgg 360
ggggagcggc accccaaagc tggaaaaata tttggaattg ttgggcaaag gactgcacct 420
ccaacaaccc caactggtgg gggcaacact gttgccggga gcg 463

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<210> 7816
 <211> 471
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-077-Q1-N6-C10
 <400> 7816

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gaaaaaggaa aatcttgggg gacccattat ccgggaccac ttattatcgt tggaccacga 60
gtccccgatc ccgaccaact aactggccac aaagcaatcg caaaaaacia cgatgtccac 120
tcttgacaac ccatatccca atcaatctac cacctttccg gccgttccac actgatcgga 180
tgggggcctt aaccttccac ccggccgctt ttttcccacg accaccagag gcagcagtga 240
cagcgaggca gccgctccac cattactggt cgccgccttt ccggaccctt gtccttaaaa 300
ctacaaaacc gggccttttc agggccaggt cctccaacgg gctcccgcaa atcggggggg 360
ccttgttcgg cagcagcaat ggtatcgggt cgcgcgctt gcctgccgtt ggaatatgcg 420
agcgtgcatg atgaccgact gtacccaaaa tcacgtactg gttcctggcc c 471

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<210> 7817
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-C11

<400> 7817

catggatagt ttacatgggt attgttgtaa gtcgtcgcaa cgcacgggca accgactagt 60
aataataata aaagggtttt gtctgtgtgc gtgctggat gtaggagcgg gtactttaga 120
ttgggcatcc cgcattcata cccttgccgc gaggtgaaga gatcatccgg gcgagaagac 180
aagttaattt tatTTTTgtc tgtgcccgcg cgcgtgggcc gcttcggtca cacgcgtcgc 240
tcggcgtcgc gacgccgacg tccggcgaag gcgacgggta cggcccgact tgcgcgtcag 300
gaacagcggg cacctaccgg ctaccgcgc ctcctttcca cttccaccgg cttgtgttct 360
cgcccgggca gcccagcgc cgaaggagggg aagctccgtc atcaatcggc cggccggggg 420
ccggtgccca aggaaagctt agcgatgcgg ag 452

<210> 7818

<211> 544

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-C12

<400> 7818

gtgttgTTTT tttttttttt ttttttttat cgaacaccct tggggaccaa tatcacatta 60
aaatctggaa atgtaacttc ttatttctgg ttggccacat acatcatcca aaaactttat 120
tattgaatta caactaataa gcaatctaaa agagggcacc accaatgatg tgttgttggt 180
aggaggccgc tcggtctgtc aaagcaagtt ggacaaaggg caacaattgt tgtagttgta 240
agagggttgc ggggttagcc gaaaactgct ggtagaaagg cagcaactgt tgctgtgtca 300
agaaggaagc acggtttgct gcagctagct ggctaaatgg tagtagtatt tgctgctgca 360
aataagcagc ggggttcagt gcggccaatt gggttaaagg aagaagttgt tgttgctgag 420
agtaggcagt agctagctgg ctgaatggta atagttgttg ctgcaaataa gcagcagggt 480
tcagtgtaaa cagttggttg aatggaagaa attgttggtg ctgagagtag ggagaaaggt 540
ttgc 544

<210> 7819

<211> 519

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-077-Q1-N6-C2
 <400> 7819

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atcaaaatgc aaagagcttt atttgacaac catgtatgta catacagaca cgacgacgat 60
cgaacatata agaccatgat aggtcatatg acatatataa gacctttatc tagcatatct 120
gtagtaccgc tcttgctgct gaaaccagac taaagttggc gcaggtagac accgatcgca 180
gcgacgagcc tggtcgtcgc gcgtccatag aatcccacga tgctgctgcc gatgggcgcg 240
gtgatgcaaa aacgtgtgcc gctctcgatg ccccatggcc cccaagctct ggcggtgctg 300
gtgacaatcc tgaacgaggt aagggtagtc gcaccttcga atgcgccgta cgttccagaa 360
acttccttga cgtattcagc gtcgccaaga tcgagcttcc ggacgttgcc gccaaagtcca 420
cccatcgcc cagcgggtgcg cgtctgacca cctgtgtcgg tactgtaggt gaactcgatg 480
gagtccacgg caacgccggc gcggacggtc aggtctctgc 519

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<210> 7820
 <211> 530
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-077-Q1-N6-C3
 <400> 7820

```

cacattaata tctngaaag taacttctta tttctgggtg gccacatata tcatccaaaa 60
actttattat tgaattacaa ctaataagca atctaaaaga ggcaccacca atgatgtgtt 120
gttggttaga ggccgctcgg tctgtcaaag caagttggac aaagggcaac aattgttgta 180
gttgtaagag ggttgcgggg ttagccgcaa actgctggta gaaaggcagc aactgttgct 240
gtgtcaagaa ggaagcacgg tttgctgcag ctagctggct aaatggtagt agtatttgct 300
gctgcaaata agcagcgggg ttcagtgcgg ccaattgggt aaatggaaga agttgttggt 360
gctgagagta ggcagtagct agctggctga atggtaatag ttgttgctgc aaataagcag 420
cagggttcag tgtagacagt tggttgaatg gaagaaattg ttgttgctga gagtagggag 480
aaaaggtttg ccagagctac ttnggttgat cacaggtagc acgagttgct 530

```


<210> 7821
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-077-Q1-N6-C4

 <400> 7821

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aggaaatgta ctttcttatt tctgggaagc cacaaacatc agacaaaaac tttattattg   60
aactataact cataagaaat ctaaaanagg gcaccaccaa tgatgggttg ttggtagaac  120
gctgctgggt ttgtcaaagc aagttgggtg aatggcagca attgttcag ttgtaagagg  180
gtgccagcgt taggcgcagc gtgctggtag aacggcaaca actgtggttg tatcaagaag  240
ggagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa  300
gcaggagagt tcaatgctga cagttggttg act                                     333
  
```

<210> 7822
 <211> 511
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-077-Q1-N6-C5

 <400> 7822

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aggggaacgg ttaagacgtt caaagatagc aaaaaacacg acagtcagca attcaaacaa   60
aatatgatct taagacaaca ttgacctaca caaagaacca aaagcagata acgccatgct  120
gaaccaccaa taccgataaa actttcttag atcttctcat aatatttgac agacttcaag  180
cagaatgaaa caaggtaggc cttcagctct gggagaccat ctcgtagggc ttgtcacaag  240
agagcacagc caaagcgact tcctccgaac tccaaaactc ggttttagaag accatctcgt  300
ggggcttgtc accatcccta agggagaacc gagcgccaag ataggccttc agctctggga  360
tagcctcaat agccttgatc agagcagcat ccacggcctt ctggatcatc tttttgaaat  420
caggcagaga cttggacgcc tccttctctg tctcaaaaag ctcaccctcc gtcttcttca  480
ccttctgctt tttctccctg gcaaagtact t                                     511
  
```

<210> 7823
 <211> 365

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-077-Q1-N6-C7
 <400> 7823

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gggggcgggg ggggcccccc ggggaatcgg gggggggccc ggggggggcc ccccttttcc 60
ctaagggggg gggtaaaaag ggggggggaa aaaaggggaa aaggggttcc cgggggaaaa 120
aggtttcccc ccaaaaaacc cccaaaaaaa aggggcgggg gaaaaaaag ggaaaccggg 180
gggggcccac gggggggggc cccccaaaaa aagggggggg gcccacggc cccttttcaa 240
aggggaaaaa ccggggggcc cccgttttaa aaaaaacccc ccccccggy gggggggggg 300
tttttatgtg gggccccggg ggggtttttt tttttcccg gggggggggc aaaagtgtgt 360
ggccc 365
  
```

<210> 7824
 <211> 529
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-077-Q1-N6-C8
 <400> 7824

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tagaatatac atttaattag tattgcacaa tgatagatcc acatcacata aaccatcaac 60
aagcaccaca acaaaatcat tcacaaaacc tacacatggt attatgtttt gcacatattt 120
acaaacactt tacaaaatca ttcacaaaag tactaacgct tcaagtgttt cgcaaaagcc 180
ttcattgagc aactcaacag gattttccat agatctttct ctgcagcttt tgccgcttca 240
ttgagcaact caacaggatt ttccagataa cttatgtatt cagaagagag acgtggagaa 300
atgtttatat ccagctgaac atctttgtat ggtactggga ctaggcaaaa ctgatcaaca 360
cgagcaagta gttcagaata ggaattatct tcttgaccat gtaagatgca tctcgcaata 420
ctgagaagtg gtcaactcta ctgatgcaac catcaggctc ctgttattcc agatccctga 480
aaaacaagat agacagcagg agagaagtgt acaggattcc ttgcttaag 529
  
```

<210> 7825
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-C9

<400> 7825

aaaaaggggg ggaggcacag aggggttacca aaaaaaaaaag gggggggccc aaaaaaaaaa 60
aagaacacag ggaaccatc accaaaaaaaa aaaatacccc cttgagccaa aagggggggg 120
gggctggggg gaaataaaaa cagggggggg ggggatttta aaaaaagaaa aaggcctgcc 180
atcaccagca aggaaaatat ccttgaaagc cccccccctg gggataaaaag gcaaacaggg 240
ccccgggggg gggacaatta tatccaaaag ggacggccct ggaacccaaa acaatttttt 300
taaggggggg gggacttttt tttttttttg aaaacggacc ccgggaaagt taaacccttt 360
ggcaaaccaa aaaaaaaggg gaaaaaccca aattccattc ctggggggtc ccaaatatgg 420
ggccc 425

<210> 7826

<211> 544

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-D1

<400> 7826

ctaaaaagta ctttcttatt tctgggaagc cacaaacatc agacaaaaaa ctttattatt 60
gaactataac tcataagaaa tctaaaagag ggcaccacca atgatgggtt gttggtagaa 120
cgctgctggg tttgtcaaag caagttgggtt gaatggcagc aattgttgca gttgtaagag 180
ggtgccagcg ttaggcgcag cgtgctggta gaacggcaac aactgtgggt gtatcaagaa 240
ggtagcaggg ctacaccag ctagctggct gaatggtagt agttgttgct gctgtaaata 300
agcaggagag ttcaatgctg ccagttgggtt gaatggaaga aattgctggg ggtaggcagc 360
aggtagctgg ctgaatggta gttgttggtg ttgcaaataa gaagcagagt tcaatgcagc 420
tagttgggtg aatggaagaa actgctgttg ctgagagtag gcagcaaggt ttgctagcac 480
aagttgttgt agttgttgtg ccctgatgtt ttgtgccaat aaatgcacca aaggtaactg 540
atgt 544

<210> 7827

<211> 491

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-077-Q1-N6-D2
 <400> 7827

aaattaaagg attcaattat ttagaattat aattttatatt tacgggaaaa acaggaacgg 60
 ccccatgtag tcagcccga aaccacagag ggccatctca tagcaacgct agacatccct 120
 ccatgcagct agctacttgg gtagacaaa actgacagag cccacacgg gaaacgtatg 180
 gacttggcct attcatatga taatttaacg agaaaggggc gaatcacagc ttgggaccct 240
 gttctcaatt ccaagggtcg caatataaca agcgattcgg cttattaaaa tcaccccccg 300
 atccaagacc catgataaat aaattgggtgc ttgcaatcta ctgcctcaag ctttgcáaaa 360
 tatactgggc atacaggctc atggagtact gaatggcttc ttgagctgtt gtcgcgggca 420
 aaaatgcac aactgcgact tctttgggtct cggttttctt ggaaacttaa aaaaagcgct 480
 tgatcttttg c 491

<210> 7828
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-077-Q1-N6-D3
 <400> 7828

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 ctgctgggtt tgtcaaagca agttggttga atggcagcaa ttgttgtagt tgtaagaggg 180
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 caggagagtt caatgctgcc agttggttga atggaagaaa ttgctggggg taggcagcag 360
 gtagctggct gaatggtagt tgttgttgtt gcaaataaga agcagagttc aatgcagcta 420
 gttggttgaa tggaagaaac tgctgttgct gagagtaggc agcaaggttt gctagcacia 480
 gttgtttagt ttgttgtgcc ctgatgtttt gtgccaataa atgcaccaa 529

<210> 7829
 <211> 538
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-D4

<400> 7829

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cagcaaaaaa actttattat tgaactataa ctcataagca atctaaaaga ggcaccacca 60
atgatggggtt gttggtagaa caçtgctggg tttgtcaaag caagttggtc gaatggcagc 120
aattgttgca gttgtaagag ggtgccaacg ttaggcgcag tgtgcaggta gaacggcaac 180
aaatgttgct gtgtcaagaa ggcagcaggg ctcacagcag ctagctggct gaatggtagt 240
agtgtgtgtt gttgtacata agcatgagag ttcaatgctg ccagttgggt gaatggaaga 300
aattgccggg ggtaggcagc agctagctgg ctgaatggta gtagttgttg ttgctgcaaa 360
taagcagcag agttcaatgc agctagttgg ttgaatggca gaaactgttg ttgctgagag 420
taggcagcaa ggtttgctag cagcagttgt ttagttgttg gtgccctgat gttttgtgcc 480
aacaatgca ccaaaggtaa ctgctgttgc tgagagtagg cagcaagggt tgctagcc 538
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<210> 7830
 <211> 476
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-D6

<400> 7830

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tttgagggcc ccattatcga gtccatctca tatgtaatct aaaagatggc cccccaacg 120
agggggtgct gccacaacaa ggcagggttc atcaaaaaaa actggttgta tggcaacaat 180
tgttgctgct gtaggaaggc agccaccaat gggttagcca ccgctagggg attaagtaac 240
tgttgtccct gttgtaggta cccaacaaag ttcgacacaa tcagttgggt gaatggaagc 300
agctgttgca agtaggcagc agggtttgcc acaactagct gagtcaaagc tgggtacaatc 360
tgttgcaaca actgttggtg caggtatgta ggtgcattaa ccacagcgag agggctagat 420
gaaaacaatt gttgctgttg taggtaggcg gcagggttca ccacggctag ttgact 476
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<210> 7831
<211> 491
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-D7

<400> 7831

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ttccatctaa tatgaaatca aaaaaagggc cccccaacg atgggttgct gccacaacaa 120
ggcaggggta ataaaaaaaa actggctgta tggaacaat tgttgctgct gtagaaaggc 180
aggaaccaat gggttaggcc ctgctagggg ataaaaaac tgttgccct gttgtaggtc 240
cccaccaaag ttcaacacaa ccagttgggt aaatggaacc acctgttgca agtaggcaac 300
agggtttgcc acagttagct gagtcaaagc tgggtccaatc tgttgcaaaa attgttggtg 360
caggtattta ggtgcattac ccacaacgag gagggctaaa taaaagcatt tgttgctttt 420
gtaggtaggc ggcaggggtc accatgggta gttaactgac ccctggcaaa aactgttgca 480
attgttggtg t 491
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<210> 7832
<211> 519
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-D8

<400> 7832

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cgcacaccac cctttgcagc aatgcagcta tttccatta actgatgcac tacattagaa 120
gtttacatgc ccaaacatta gcaggtcaga gttccggcg cctatactta cagtctgaaa 180
aaaacaaaag atgccagttt tgcacagatg aaaagcacct gcgtgttggt tcccttacia 240
aaaaatcaga tacacaagct atgccttaac aaagcgcaaa tgatacagac agagcagagc 300
ggcacggcaa aatagaatat ctgatctata acatcaacta cgatgcggag tcaactcgaca 360
agtaccttt cactggagct gcaagcacc ctaccccatg cggatggaaa agaacaagac 420
aagctgtgaa acacaaaaca gccgcaaccg ccacagtcgt aacaagtcgc attctcgtgg 480
caccaccagg ataagtaaca atcagtgagg gcttaagcc 519
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<210> 7833
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-077-Q1-N6-D9

<400> 7833

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 aaattggggg ggaagggggg gaaaaacccc caaaaggggg gggggaatgg ggcgggggaa 180
 aaaaaggccc ccccccttgg gggggcgggg ggaacccaa aaaacaaaaa gggggggggg 240
 gggggccccc ccgggaaaag ggagaaaacc atgtggaaaa agggggggga aaggaatggg 300
 ggcaaaatcg gccaaaaaaa aaaaaaagg gggggggaaa aaccggggag aaatgggggg 360
 ggaaaaaacg ggttgggaaa aagggtttcc caaggggggg aacgggggcc a 411

<210> 7834
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-077-Q1-N6-E1

<400> 7834

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 ggggggggca aaaaaaaaa aaaaaaaat tttttgggga aaaaaaaaa aaaaaaata 120
 aaaaagggg cccccaaag aggggttggg gggaaaagg gggggggttt gtaaaaaaaaa 180
 gggggaaaaa ggggaaaaat tgtgggaatt taaaagggg ggggggggta aaaaaaaaag 240
 ggggggaaaa aggaaaaaat tgggggtttt aaaaaagga aggggggggt gggggagtta 300
 ggggggaaaa ggggggaaat ttttgggggg ggaaaaaaa aaggggggta aggggggcca 360
 attgggaaaa aggaaaaaaa ttttttttta aaaaagggga agagttaggg ggggagaagg 420
 ggaaaagtgg t 431

<210> 7835
 <211> 533

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-077-Q1-N6-E10
 <400> 7835

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 atagtatact catattatat attttcatta caacacacgt gcattcagct agtaactact 120
 atagatctaa tgggagcaga gaattatgaa aaaacattat agaagcagta caagccggta 180
 tgaatgaaag tcaaacgaac aagtctgtca catatagcaa atccatgatt accgactaga 240
 actggtgtcc atgggtcgta ttggaatccc ttgcacagat catgttttcg caaccaccgc 300
 ttcctctaaa attggcaaag atgggtctcca agtgggtccg tcggggccat ccatgagggc 360
 aattcctatg gcagccagtt ctttcggat ctcgtcggat ttttcatact gttttgcctt 420
 ccttgctgca gtcctctctt caatcttctg caccacaagc tcctcgggtga tggaagctcg 480
 tctcagtgcc ttatcccgca gctgttgcaa agcctcatga taacttgaag gta 533

<210> 7836
 <211> 537
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-077-Q1-N6-E4
 <400> 7836

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 ctgctgggtt tgtcaaagca agttgggttg atggcagcaa ttgttgcaat tgtaagaggg 180
 tgccagcggt aggcgcagcg tgctggtaga acggcaacaa ctgtgggttgt atcaagaagg 240
 tagcagggct cacaccagct agctggctga atggtagtag ttgttgctgc tgtaaataag 300
 caggagagtt caatgctgcc agttgggttg atggaagaaa ttgctggggg taggcagcag 360
 gtagctggct gaatggtagt tggtgtgtgt gcaaataaga agcagagttc aatgcagcta 420
 gttgggtgaa tggaagaaac tgctgttgct gagagtaggc agcaagggtt gctagcacia 480
 gttgtttagt ttgttggtcc ctgatgtttt gtgccaataa atgcacaaaa ggtaact 537

<210> 7837
 <211> 525
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-E5

<400> 7837

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ggaacaatac ttttttcttt tcatttcaat tgttcattca ggtcattgct cacactgaca 60
ctgccacca tggatgatgcg tgacacatta ttactcaatc atcgccgcta aatgactcaa 120
ctagctagct agccagcggc tatactacag cacatagttt cttcagtggg ggacaccggc 180
ggcagcagcg taggggcatg gagtcggctg ctgcaggccg cacatcgccg tcagttgctg 240
cgctatctgc gccgccaaca gcccgcgcac ctggccgctt tgccgctgct gctgcaggat 300
ggactggagg accaagccga agatcgccctg gtaccgggtg tgccgctcca cctgcctgag 360
ctgctggcaa cactgctgcc gcaacgactg gcaactgagg gagcagtagg gcgtcgccgt 420
cgggctgcac tgatgcctca gaaactcgac gcaactggccc aggatcgggg tgctgccaac 480
gccgcagggt cctgcagct ggcacggggt tggatgcggc tggtg 525
  
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<210> 7838
 <211> 507
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-077-Q1-N6-E6

<400> 7838

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cgtcttactg cattattaca tatatagata gagagggatg gatagaggag atttcccaaa 120
tatcatgaat cagtagtagg gcggaatggc agcggagacg ccacaggggt tggatgcggta 180
gctgggcagc tggatctggt actggttagag tccacccatg gccggcatgt tctgcgccat 240
catcatggcc atggggttga gaccctgggc tgccagcagc tgctgctgct gctgcatcag 300
agctggctcg tacaggctgc tgctggcggc agcggcacgc tcaagctgca tcatcatctg 360
cagctgctgc gcgacggact gcacgtccat catcctcacc tgctgctggc agcactgttg 420
ccggagcggc tggatcatgg ncgctcgtct gccacacccc ggcgtagtag ggnccgcgcc 480
  
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gccagcgggc tgcactgcgg ctgcctc

507

<210> 7839

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-E7

<400> 7839

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gattaccacc aaaaagccat ctaaaagggg gccccccca agatgggttg gggggagggg 120

gcccctcggc ctgtcaaac aaggtggaca aagggaaca attgtttag ttgaaaaagg 180

ggtggggggg tacccccäaa ccgctgggaa aaagggaaca actgttgctg ggtcaaaaaa 240

gaaacacggg ttgctgcaac tagctggcta aaaggagaa gaatttgctg ctgcaaaaaa 300

acagcggggg tcaaggcggc caattgggta aaaggaaaaa attgtttttg cttaaagtag 360

gcaaaaccta cctggctgaa agggaaaaat tgttgctgca aaaaaaccac agggttcaag 420

gtaaacagtt ggttgaaagg aaaaaa 445

<210> 7840

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-F1

<400> 7840

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aagggaactt taatggtaaa acaaccaggg gggaaacccc aaaaaagttt aaaaaatttg 120

gggggaaaaa aatttttttt ggggggattt tttttggggg ggggaaaaaa aaattttttt 180

tataaaaaaa actggggggt tttattttaa gggggggggg taatgggggg ggaaagggga 240

aacaaggggg ggggtgtattc caaatTTTgg gggaaaaaaa aaaagagttt taaaaaattt 300

gcgttaaagg gaaaggaagt tttaaaaaaa aaagaggtaa aactggttgt cccctgaaaa 360

aagggggaaa aaagggtttt ttaaaaagaa aaaaaggagc ctttggggga aatttt 416

<210> 7841

<211> 536
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-F10

<400> 7841

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taaaactgac aatttacagc atgatgtatc cccaaatcca ggccccaat gtcgattcaa 120
catgtaacta acatttgctg ctacaacatt ctaccctaca acattgaagg acacaaaaga 180
gcaaaaagaa agaaaaaatg ccttggatga cacttttatt gctccgatga tctccaacag 240
actgatctgc agatcacgca tgtaaaccagg tgctgatcat tgtcgaatgt cgagacacac 300
agctgcatgt cgcacgttca cttcatataa ctgttccact agggagtaaa gcacacctga 360
tcactgtgac aattccacct ttgatgaagt acccgtctgt ctcccttgca gcttcttgaa 420
cattgtcagc attgagtatc ttaacattgt ctccaattcg agcattcttg tcaatgattg 480
ctctctgat gcataaattt ttccaatac caataggaat gccacctttt tcggca 536

<210> 7842
<211> 535
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-F11

<400> 7842

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aatggaaata caaaggttca taaaaagggt tgctgcaact tctagggcag cttataacag 120
tacatactag cagcacaaat ggtcaaggaa cagcatgccg gacaacgcac cttgcgcccc 180
aacgctcgac ttctgtgcaa gcggctctta ccataccaag gttacacgat ccacgatgc 240
aataccattg taggttcttg ttttgtagac gcaaacgcag ccgatctata tgacagacct 300
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cctagcattc atgtcaatga tacagttcct tatctttgtg ttcttctcta ttccaactgg 480
gaccttccca gctaacagta gctttgaagc ttcttcttca gtttcatagg tgtcc 535

<210> 7843
 <211> 552
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-F12

<400> 7843

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gggggggggtt tttttttcaa ataaaaaatt tattattgaa ctataactca taagaaacta   60
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tggttgaatg gcagcaattg ttgcagttgt gagaggggtgc cagcgtagg cgcaacgtgc  180
tggtagaacg gcaacaactg tggttgtgtc aagaaggtag cagggctcac accagctagc  240
tggtcgaatg gtagtagttg ttgctgctgt aaataagcag gagagttcaa tgctgctagt  300
tggttgaatg gaagaaattg ctgggggtag gcagcaggta gctggctgaa tggtagttgt  360
tggttgttgc aataagaagc agagttcaat gaacctagtt ggttgaatgg aagaaactgc  420
tggtgctgag agtaggcagc aagggttctg agcacaagtt gttgtagttg ttgtgccctg  480
atgttttctg ccaataaatg caccaaaggt aactgttgta atagggctga tgattgttgg  540
aggaacaagg gt                                     552

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<210> 7844
 <211> 517
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-F2

<400> 7844

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tagaactctg ctgggtttgt caaagcaagt tggttgaatg gcagcaattg ttgcagttgt  180
aagaggggtgc cagcgtagg cgcaacgtgc tggtagaacg gcaacaactg tggttgtgtc  240
aagaaggtag cagggctcac accagctagc tggtcgaatg gtagtagttg ttgctgctgt  300
aaataagcag gagagttcaa tgctgctagt tggttgaatg gaagaaattg ctgggggtag  360
gcagcaggta gctggctgaa tggtagttgt tggttgttgc aataagaagc agagttcaat  420

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gaacctagtt ggttgaatgg aagaaactgc tgttgctgag agtaggcagc aagggtttgct 480
 agcacaagtt gttgtagttg ttgtgccctg atgtttt 517

<210> 7845
 <211> 517
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-077-Q1-N6-F3
 <400> 7845

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 tcaggccgcc accactcatc agattcgaga tagaggacct cctggcgctg atcattattc 180
 atcgaggtac cattcccacg attatgggcc tttagagcca agcttaggga gaagtccgcc 240
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 gctgcccag agaatgagca cggcgaccca aaccagcttg gtgaccggag acggcgagcg 420
 cacaagcagc gcccctatga cgaaggactc gagggacagc agcgccagcc ggggcctcct 480
 ttccctgacg tactccngga tcgcctcgcc gaccacc 517

<210> 7846
 <211> 525
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-077-Q1-N6-F4
 <400> 7846

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 aattgtgggtt gtgtcaagaa ggtagcaggg ctacaccag ctagctggct gaatggtagt 240
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 aattgctggg ggtaggcagc aaatagctgg ctgaatggta gttgttgggt ttgcaaataa 360

gaagcagagt tcaatgcagc tagttggttg aatggaaaaa actgttggtg ctgagagtag 420
gcagcaaggt ttgctagcac aagttgttgt agttgttggt cctgatggt ttgtgccaat 480
aaatgcacca aaggtaactg ctgtaatagg gctgatgatt gttgg 525

<210> 7847

<211> 536

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-F5

<400> 7847

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tgctgggttt gtcaaagcaa gttggttgaa tggcagcaat tgttgagtt gtaagaggg 180
gccagcggtta ggcgagcgt gctggtagaa cggcaacaac tgtggttggt tcaagaaggt 240
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ttggttgaat ggaagaaact gctgttgctg agagtaggca gcaaggtttg ctagcacaag 480
ttgttgtagt tgttgtgcc tgatgttttg tgccaataaa tgcaccaaag gtaact 536

<210> 7848

<211> 255

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-077-Q1-N6-F6

<400> 7848

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tatatgacat aaatatgcac tgcacacatg tatgcttgag catgagctga tgctactgct 120
agcgctacgg agttgatcca aaagctgtga gctagacaaa aattcggcac aactcgact 180
cgatcaaaag atgctgctgc tactgatcta tatatgtagt gtagcttcta gcaagccacc 240

tgctccttgt agata

255

<210> 7849

<211> 534

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-F7

<400> 7849

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ctataactca taagcaatct aaaagagggc accgccaatg atgggttggt ggtagaacgt 120
tggtgggttt gtcaaagcaa gttgggttgaa tggcagcaat tggtgcagtt gtaagagggg 180
gccagcggtta ggcgcagcgt gcaggtagaa cggcaacaac tggtgttggt tcaagaaggc 240
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agcagagttc aatgctgcc a gttgggttgaa tggaagaaat tgctgggggt aggcagcagc 360
tagctgactg aatggtagtt gttggttgaa ataagcagca gagttcaatg cagccagttg 420
gttgaatgga agaaactgct gttgctgaga gtaggcagca aggtttccta gcacaagttg 480
ttgtagttgt tgtgccttga tggtttgtgc caacaaatgc accaaaggta actg 534

<210> 7850

<211> 547

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-F8

<400> 7850

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tttttttttc ccaaataaat cccaacccaa atattgatta tttctaggaa acacatcccg 120
gtttgagggc cccattataa agtccattta atatgaaatc aaaaaaaagg cccccccaac 180
gaggggttgc tcccacaaaa aggcagggtt cataaaaaaa aactggttgt atggaaacaa 240
ttgttgctgc tgtaggaagg caaccaccaa gggattacc cctgccagg gataaagaaa 300
gggttgcccc tggtgaaggc ccccaccaa gttcaacaca accagttggt taaatgaaac 360
cacctgttgc aagaaggcaa cagggtttcc cacagctagc tgagtcaaag ctggaacaat 420

ctgttgcaac aactgttggt gcaggtatgt aggtccatta accatagcga ggaggggctaa 480
 aaaaaaccac ttgttgctgt tgaaggtagg cggcaggggt caccatggct agttgactaa 540
 cccctgg 547

<210> 7851
 <211> 525
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-077-Q1-N6-F9
 <400> 7851

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 ctcataagca atctaaaaga gggcaccgcc aatgatgggt tgttggtaga acgttggttg 180
 gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga gggtgccagc 240
 gttagggcga gcgtgcaggt agaacggcaa caactgttgt tgtgtcaaga aggcaacagg 300
 gctcacatca gctagctggc tgaatggtgg tagctgttgc tgttgtaaata aagcagcaga 360
 gttcaatgct gccagttggt tgaatggaag aaattgctgg gggtaggcag cagctagctg 420
 actgaatggt agttgttggt gcaaataagc agcagagttc aatgcagcca gttgggtgaa 480
 tggaagaaac tgctgttgct gagagtaggc agcaagggtt cctag 525

<210> 7852
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-077-Q1-N6-G10
 <400> 7852

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 aaacaaaaaa aaaaaaaaaa gagagggggc cccccaggg gggggggggg ggaaaaaccg 120
 gggggggggg aaaaaaaagg gggggggggg ggggaaaaag gggggggggg aaaggggggg 180
 cccggggggg gggccggggg gggggaaaaa ggaaaaaaag gggggggtaa aaaaaggggg 240
 gggggggcca aacccattg ggggggaagg ggggaaaggt gggggggggg aaaaaaggg 300

gggggggtaa aagccccccc ggggggaaag ggaaaaaat gggggggggg gggaaaaaga 360
aacggggaaa agggggaatg gggg 384

<210> 7853
<211> 542
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-G12

<400> 7853

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gagggcacca ttatcgagta catctcatat gtaatctaaa agaggcacca ccaacgatgg 120
gttgctgcca cgacaaggca ggggttcatca ggggggactg gttgtatggc agcaattggt 180
gctgctgtag gaaggcagcg accaatgggt tagccaccgc tagtggatta agtaactggt 240
gtcgctgttg taggtacgca gcagagtctg acacagtcag ttgggtgaat ggaagtagtt 300
gttgcaagta ggcagcaggg tttgccacag ctagctgagt aagagctggg acaatttggt 360
gcagcaactg ttgttgcaac aactgttggt gcaggtatgt aggtgcattg cccatagcga 420
gcgggctaga tgaaagaagt tgttgctggt gtaggtaggc gataggggtc accatggcta 480
gttgactgag cgctggcaga aactgttgca actgttggtt ttgttggtat gcagctacgt 540
tt 542

<210> 7854
<211> 507
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-G2

<400> 7854

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tttttttttt tttttttttt tttttttttt aacctaaaag gggggattaa aggctggctc 120
cccaacctag gggaaaaaaa tatggaaccc ccgggggggc caaaagcaca ttaaaattgg 180
gaaaggaaac tttttatttg gggggggcca caaccataac caaaaaact taattttgga 240
ataacaacaa aaaagcaatc aaaaaaaggg ccccccaag gaggggtggg gggaaaaagg 300

ctgggggggtt tgaaaaaaa ggggggaaaa agggcaaaaa cgggggcatt tgaaaaaggg 360
 ggggggggta acccaaaaac ggggggaaaa acgaaagaaa tgggtggtggt taaaaaaagg 420
 aaggggggct tgttgaaaca agcgggcaaa aggggaaaag aattgggggg ggaaaaaaag 480
 aaaggggggtt aaggggggcc aatgggt 507

<210> 7855
 <211> 542
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-077-Q1-N6-G3
 <400> 7855

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 atcacattag nnaatctgga aatgtaactn ntcttatttc tgggtgtggcc acataccatc 120
 atccaaaaaa ctttanttat tgaattacaa ctaataatca atctaaaaga gggcaccacc 180
 aatgatgtgt tgttggtagg aggctgctgg gtttgtcaaa gcaagttgga caaagggcaa 240
 caattgttgt agttgtaaga gggttgcggg gttagccgca aactgcttgt agaaaggcag 300
 caactgttgc tgtgtcaaga aggaagcacg acttgctgca gctagctcgc taaatggcag 360
 tagtatttgc tgctgcaaat aagcagcggg gttcagtgcg gccaatgggt taaatggaag 420
 aagttgttgt tgctgagagt aggcagtagc tagctggcta aatggtaata gttgttgctg 480
 caaataagca gcagggttca gtgtagacag ttggttgaat ggaagaaatt gttgttgctg 540
 ac 542

<210> 7856
 <211> 467
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-077-Q1-N6-G4
 <400> 7856

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 tgccaaagag ttaatcaatg ctgataaatc agcaatatct aagtattatc atcagcattt 180

tcttcaatat cttgcaacaa agctcctcgt actcttgccc tccgaggcaa agggggccacc 240
cccttcgtac ctttagcagg aggaactttg ctagggaaaag ccaactgggggt ttgctgctgt 300
acaacaacaa tcatttgatc aaagcttgga gggggccccc acacacttgg aaacttatca 360
gtcacaagct ttggccttgt agcctttctt ttgtccagga aagaaagggc ttcaagttgc 420
ttttgcatta cttcgttttt ttctctttca aagtctaaat tttccat 467

<210> 7857
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-G5

<400> 7857

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aattacaact aataagcaat ctaaaagagg gcaccaccaa tgatgtgttg ttggtaggag 120
gccgctgggt ctgtcaaagc aagttggaca aagggaaca attgtttag ttgtaagagg 180
gttgcggggt tagccgcaaa ctgctggtag aaaggcagca actgttgctg tgtcaagaag 240
gaagcacggt ttgctgcagc tagctggcta aatggtagta gtatttgctg ctgcaaataa 300
gcaacggg 308

<210> 7858
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-G6

<400> 7858

gggggggggg gccccttttt tttggggggg ggccccccc ccccaaaaa aatttttttg 60
ggggcccccc caaaaagacc caaaaaaagg gggccccccc cagggggggg gggggggaaa 120
gggggggggg gttttaaaaa aaggggggga aaagggggcc ccccgggggg ggggaaaaag 180
gggggggggg ggtcccccaa aaccggggga aaaagggaaa aatttttgtt ttttaaaaaa 240
aggggggggg ggttgggggc cccccgggc caaaggggga aatttttggg gggggaaaaa 300
aaaaaggggg ggcccggggc ccccttggtt aaaagggaaa aaattttccc tgtaaaaggg 360

gccccccccc ccggggggaa aggggaaaa

389

<210> 7859

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-G7

<400> 7859

aaaaaaaaac aaaccggac ccccttaaat tatggtcccg ggggaacgac ccgaaaagag 60
catccatctt ctggcggggt ttataatcca aacataggag ctagctacaa gctaattcct 120
aaggccctag gcttttcgca gttactgggg ggggaatcgtc cccccgccga aaatccaggg 180
gcattcggca accccggtga gggggggccag gttgcactcg gcctccggga caaggggggg 240
ggaaaatccc ctttgcacct cccgggggca gcccggcagg tccttaaggg ggcctcaag 300
ttgcgcgtcc gggcccgggg ggatcccccc ccccatgagg atgctaagcc ccgggcaccg 360
gaagaacccc gggatgtccc ccagctcccg gaagaatttc cttttaagct ccggccacgg 420
gaggggcggc ccaatgcaa aggtccgggt gg 452

<210> 7860

<211> 497

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-G8

<400> 7860

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gtatgagggc accattatcg agtacatctc atatgtaatc taaaaaaggc acctccaacg 120
atgggttgct gcctcgacaa gacaggattc atcaaagaga actggttgta tggcagcaat 180
tggtgctgct gtaggaaggc ggcaaccaat gggtaggcca ctaccaatgg attaagtaac 240
tggtgtcgct gttgtaggta ccagcaaag ttcgacagaa tcagttgggt gaatggaagc 300
agctgttgca agtaggcaac agggtttgcc acagctagtt gagtcaaagc tgggtacaatc 360
tggtgcaaca attgttggtg caggtaggta ggtgcattgc ccacagcgag cgggctaaat 420
gaaagcagtt gttgttggtg tacgtaggcg gcagggttca ccatggctag ttgactgagc 480

gttggcaaaa actgttg

497

<210> 7861

<211> 535

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-H11

<400> 7861

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ttgaactata actcataaga aatctaaaag agggcaccac caatgatggg ttgttggttag 120
aacgctgctg ggtttgtcaa agcaagttgg ttgaatggca gcaattgttg cagttgtttag 180
agggtgccag cgttaggcgc agcgtgctgg tagaacggca acaactgttg ttgtatcaag 240
aaggtagcag ggctcacacc agctagctgg ctgaatggta gtagttgttg ctgctgtaaa 300
taagcaggag agttcaatgc tgccagttgg ttgaatggaa gaaattgctg ggggtaggca 360
gcaggtagct ggctgaatgg tagttgttgt tgttgcaa atagaagcaga gttcaatgca 420
gctagttggg tgaatggaag aaactgctgt tgctgagagt aggcagcaag gtttgctagc 480
acaagttggt gtagttgttg tgccctgatg ttttgtgcca ataatgcac caaag 535

<210> 7862

<211> 534

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-H12

<400> 7862

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tgccgctatg agggcaccat tatcgagtac atctcatatg taatctaaaa gaggcacctc 120
caacgatggg ttgctgccac aacaaggcag gggctcatcaa agagaactgg ttgtatggca 180
gcaattgttg ctgctgtagg aaggcaacga ccaatgggtt agccaccgct agtggattaa 240
gtaactgttg tcgctgttgt aggtacgcag cagagttcga cacagtcagt tggttgaatg 300
gaagcagctg ttgcaagtag gcagcagggt ttgccacagc tagctgagtc agagctggta 360
caatctgttg cagcaactgt tgttgcaggt atgtaggtgc attaaccaca gcgagagggc 420

tagatgaaat cagttgttgc tgttgtaggt aggcggcagg gttcaccatg gctagttgac 480
 tgagcgctgg tagaaactgt tgcaattggt gttgttggtg gtatgcaact atgt 534

<210> 7863

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-H3

<400> 7863

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 gataaaaaaa ataggtacct ataagcacat ctgaacctag ggaagagatc aagcccccggg 120
 gggagggggg atacattgca tgaaggcaag aagggtataa gctagtataa gtaatctcag 180
 agacgaacag catatgtaca taacggagtt acccattggc acaccgggtc ttttccaggc 240
 gcctagggcg ctctatcaaa agggattcct tatagcacca cgggccgcct ttcgcttaat 300
 ttttgagact tttccacttc cacggaagga catgtatact tgctgaatga caaccatgct 360
 gagcagggat tcaagggaac acattccaaa tccaatgaag taaaatatcc ccacaatagc 420
 actcctgcct atgaaatcaa aagccgggaa aatcccagcc aaggattt 468

<210> 7864

<211> 490

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-H4

<400> 7864

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 aggacatccc attgttgctg cagccacaag agtccagagc aacagaaaagg caagatttaa 120
 tccaactcat acccaaccgg gcagtttttt ttattacaaa aagggaagca gcagcattca 180
 taggtgtgga gcaccgatca acttgaaacc aaaaccagag gggcggtggg cctcaaaaat 240
 tatcgctgat caggcctaca ggaagtttct gatgtccaat ttctgacat caggcatttc 300
 ctcatcttga aactcctccc ttttgagttg agtctccatt gcttcaacgc attccttttt 360
 aagttcagtc agctcacttt tggcaatttc caattcaagc tcttctcga tctttggaaa 420

atcctccttc cgaaagccaa gctttttgtt aatcttgtca aactctgcca aaaggggggc 480
catgttcttt 490

<210> 7865
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-H5

<400> 7865

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cggagggggc cccactttcc ccaaaggggg gccgaataaa accgggggga aacaagggca 120
aaagcgggtcc ccgggggaaa atggtaaccc ccccaaaatc ccccaaaaaa aacaacccgg 180
aaccaaaaag ggaaaacccg gggggcccaa agggggggacc aaccccaaat aaaggggggg 240
gccccaacgg cccctttcca aacgggaaac ccggcggggc caccggaata aaaaaaccgc 300
ccaccccccg gggaggggcg gttggcgaat gggccccag gggggttttt ttttcacca 360
gggaaacggc aaacagtga tggccctaac cccccggccc cgaaaaaagt ggaaaaaggg 420
ggcccccccc ggttgcccc accgggcaaa aacccggtt 459

<210> 7866
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-077-Q1-N6-H7

<400> 7866

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gatcccttgt tacaagccat gaacgttggt cacacaatga cggccaggca agcctagaat 120
acaatcccga ttcagaaaat ggagagcaaa ggtacatcgt aaaaactaag agagccagca 180
agctagcatt ttatttagta aaatcgttca cccgccggta cccaatcttc tcagttttac 240
acagttgccg tcttgaggct gttgcccttc tcctgtaggc taagnaaagg ggctctgaaa 300
aanntntntt ggaaggtgtg gacttcttca agaagagctt tgacagncta cacagnttgc 360

cgctcttgagg ctgttgccct tctcctgtag gcttcacgag

400

<210> 7867

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-077-Q1-N6-H9

<400> 7867

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tttttttttt tttttttttt tttttttttt taaaattttt ttttttaaat tattttttta 120
aattaaaaaa aaaaaaatta aaaaaaaaag gaaaaaaaag ccgggaaggg ggcccccaatt 180
tttgaggggg ggaaaaaagg aaaaaaaaag ggggggactt taaaaaaa aaaggggggg 240
gggggggaca aaatttataa aaaaaaacg gggggaagaa aaaaaggggc cccccaaggg 300
ggggggggcc ccctgggaa aagaggttga aaaaaaaaa acgggggggg ggggaaaaag 360
gggggccccg aaaaagggg aaaaaaagg ggggaaaaac gggaaaagg aaaaaaggg 420
gggggggggg ttgggcccc cccaaaaaa gcgaactgga caatggggg 469

<210> 7868

<211> 492

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-A1

<400> 7868

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cgacaacagt tacttaatcc attggcagtg gctaaccat tggtcgctac cttcctgcag 120
cagcaacaac aattgctgcc atacaaccag ttctctttga tgaacctgc cttgcagcaa 180
cccatcgttg gaggtgccat cttttagatt acatatgaga tgtactcgac aatggtgccc 240
tcataccgac atgtgttttc tagaaataat caatatattg attgagattt atctcgatgt 300
attaaaaaaa accgttcaat aaaaaaaaat aatgtaatca aaaataaaaa aaaaaaaaaa 360
aattaatttt aaaaaagta ttatttctct taaaaaaa aaaaaacaa ataaaaaaa 420
aaaaaaaag tttaacaaaa aaattaaaa aaaaaaatct ttttaaaaa aaaaaatatt 480

tttcctttaa tc

492

<210> 7869

<211> 168

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-A10

<400> 7869

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cccgctccg ctcaccacga ccacgaacac acccctctct gccgctcctg cggggcgccc 120

accacggcgc cgaccccggc accctgggtca ggnaccaccg acttcccg 168

<210> 7870

<211> 545

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-A11

<400> 7870

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ttatgctcct tggctcttct gcaagtgtgt ctacggcgac cattttccca caatgctcac 120

aagctcctat agcttccctt cttcccccggt acctctcacc aacgggtgtct tcggtatgtg 180

aaaaccaaat tcttcaaccc tacaggatcc aacaggcaat cgcagctggc atcttacctt 240

tatcacctt gttcctccaa caatcatcag ccctattaca gcagttacct ttggtgcatt 300

tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg 360

cctactctca gcaacagcag tttcttccat tcaaccaact agctgcattg aactctgctt 420

cttatttgca acaacaaca ctaccattca gccagctatc tgctgcctac cccagcaat 480

ttcttccatt caaccaactg acagcattga actctcctgc ttatttacag cagcaacaac 540

tacta 545

<210> 7871

<211> 556

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-A12

<400> 7871

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ccagcacgtt ggcgctaacg ctggcacccct cttacaactg caacaattgc tgccattcaa 180
ccaacttgct ttgacaaacc cagcagtggt ctaccaacaa cccatcattg gtggtgccct 240
cttttagatt gcttatgagt tatagttcaa taatgaagtt ttttgatga tgtttgtggc 300
ttcccagaaa taagaaagta catttctaga ttcttaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
aaaaccccc aacaaaaaat aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaaaaaa 480
ggggggggccc ctttttaagg aaaaaaatTT tttctccccg tggttatgaa aaaaaaatt 540
tttttttttg ggggcc 556

<210> 7872

<211> 577

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-A2

<400> 7872

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tgcaagtgct gctacggcga ccattttccc gcaatgctca caagctccta tagcttcctt 120
tcttcccccg tacctctcac cagcgggtgc ttcgggttgc gaaaacccaa ttcttcaacc 180
ctacaggatc caacaggcaa tcgcagctgg catcttacct ttatcacctt tgttctcca 240
ncantcatca gcccttttac agcagttacc tttggtgcat ttattggcac aaaacatcag 300
ggcacaacat ctacaacaac ttgtgctagc aaaccttgc gctactctc agcaacagca 360
gtttcttcca ttcaaccaac tagctgcatt gaactctgct tcttatttgc aacaacaaca 420
actaccattc agccagctac ctggtgccta cccccaacaa tttcttccat tcaaccaact 480
ggcagcattg aactctctg cttatttaca gcagcaacaa ctactaccat tcagccagct 540

agctgggtgtg agccctgcta ccttcttgac acaacca

577

<210> 7873

<211> 560

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-A4

<400> 7873

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ccttatgctc cttggtcttt ctgcaagtgc tgctaccgca accattttcc cacaatgctc 120
acaagctcct atagcttcct ttcttccccc atactctctc ccagcgggtg cttcagtatg 180
tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgcagcag gcactctacc 240
tttatcacc ttgttctctc aacaaccgtc agccctatta cagcagttac ctttgggtgca 300
tttggttgca caaacatca aggcacaaca actacaacaa cttgtgctag gaaaccttgc 360
tgctactct cagcaacagc agtttcttcc attcaaccaa ctggctgcat tgaactctgc 420
tgcttatttg caacaacaac taccattcag tcagctagct gctgcctacc cccagcaatt 480
tcttccattc aaccaactgg cagcattgaa ctctgctgct tatttacaac agcaacagct 540
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<210> 7874

<211> 565

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-A6

<400> 7874

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caattccctc cgtcggccgc cgtccatcc cgtacgacga caccatgagg gagtgcattt 120
cgatccacat cggccaggcc agtatccagg tcggaaacgc gtgctgggag ctgtactgcc 180
ttgagcatgg cattcaggct gacggtcaga tgcccgggtga caagaccatt gggggagggtg 240
atgatgcttt caacaccttc ttcagtgaga ctggtgctgg gaagcacgtg ccccgctgctg 300

tttttgttga ccttgaaccc actgtcatcg atgaggtgag gactggcacc taccgccagc 360
 tcttccaccc tgagcagctc atcagtggga aggaggatgc cgccaacaac tttgcccggtg 420
 gtcactacac cattggcaag gagattgttg acctgtgcct tgatcgcatc aggaagcttg 480
 ccgacaactg cactgggtctc caggggttcc tcgtcttcaa cgctgttggg ggaggaacgg 540
 gctctggcct tggttccctc ctct 565

<210> 7875
 <211> 580
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-078-Q1-K6-B1

<400> 7875

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 caagcggcgg ctgcggctgc cagccaccgc cgccggttca tctaccgccg ccggtgcac 180
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 cctactgctc gcctcagtgc cagtcgttgc ggcagcagtg ttgccagcag ctcaggcagg 540
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<210> 7876
 <211> 555
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 7876

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tacaacagca acgtctgggt ggatctaccc cgctcgttct ggccaatgca cctacttnca 240
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cgtacctaca acaacgaca tggttactta atccattagc agtggctacc ccattggctcg 420
cttcctttcc tccacatcta caatttgctg gcatacaacc agtatttttt gttgaaccct 480
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gaacttgat aatag 555

<210> 7877
<211> 574
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-078-Q1-K6-B2
<400> 7877

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gactgggagt cgagctcgtt ccagcgcccc ctccaattcc gtcctgatac gctcgagcac 120
gctagcctag ccaccgatcg acgacgacac atggcgaagg tccaccgga ccgccacccc 180
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gtcgtcaggc gccgcggcaa ggcgacggcg cgcgtgacgc cgtgcgctgc tgcaggcgcc 540
gcgtacgagg tggaggggtc ctacgcgcgc cgcc 574

<210> 7878
<211> 587
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-B3

<400> 7878

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gtgggatcag attcggtttt ggacaacgaa gatgaccaac atgtgcttgt gcctcttgta 180
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ggtgacactg atatctatgt ttcaagacat ccttttagtat ttccaactca gcaccgacat 360
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ttggtcagtg gtgtttacag tattggagtt tatggtttca aagggacttc taagtaccag 480
ctctctgtag ctatcaagga tgttagtggc caaaggattg gtgaatatgc tagtgcctcg 540
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<210> 7879

<211> 492

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-B4

<400> 7879

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ggtgtgagcc ctgctgcctt cttggcccag ccgcagttgg tggcgcttctt ccagcacgct 180
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ttcttatgag ttattgttca ataataaagt ttttatgtct gatgtttgtg gcttcccaca 360
aataagaacg tccatttcta aatccattgg cagtggctaa aaaaaaaaaa aaaaaagggg 420
gtccatctt gaggatccaa gtcgttatta cgcggtgctt cttacgataa atcttttttt 480
ttggggggccc ta 492

<210> 7880
<211> 556
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-B6

<400> 7880

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gcaagcctac aggctacaac tagcgtttgc ggcgagcgcc ttacaacaac caattgcccc 180
attgcaacaa caatccttgg cacatctaac cctacaaacc attgcaacgc aacaacaaca 240
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acagcagctg cttgcatcca acccacttgc tctggcgaac gtagctgcat accagcaaca 360
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tgccctactta caacag 556

<210> 7881
<211> 577
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-B7

<400> 7881

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ctcgcgaggc gtagcttgag ggagttttga gaagctcaaa tggctcctaa agccgctcct 180
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gcaggcaaga agaagaccaa gaagattcgc acatctgtaa catttcacca gccaagacc 300
ctgaagaagg ccagggacct gaagtaccca agaatacaga ctactggaag aaacaagctt 360
gatcagtacc aaattctcaa gtacccctc accacagaat ctgcaatgaa gaagattgaa 420

gataacaaca ctctggtctt tattgttgac ctcaaggcag acaagaaaaa gatcaaggct 480
 gcggtcaaga agatgtatga cattcaagca aagaaggcca acaccctgat caggcctgat 540
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<210> 7882

<211> 564

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-B8

<400> 7882

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 agcttccctt cttcccccat accttccatc aatgatagct tcagtatgtg aaaaccagc 180
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 tgcttatttg cagcaacaac tattaccatt cagccagcta gctactgcct actctcagca 480
 acaacaactt cttccattta accaattggc cgcactgaac cccgctgctt atttgcagca 540
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<210> 7883

<211> 560

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-B9

<400> 7883

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 caacaacttg tgctagcaaa ccttgctgcc tactctcagc aacagcagtt tcttccattc 180
 aaccaactag gttcattgaa ctctgcttct tatttgcaac aacaacaact accattcagc 240

cagctacctg ctgcctaccc ccagcaatth cttccattca accaactagc agcattgaac 300
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gctggcaccc tcttacaact gcaacaattg ctgccattca accaacttgc tttgacaaac 480
ccagcagtgt tctaccaaca acccatcatt ggtgggtgcc tcttttagat ttcttatgag 540
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<210> 7884

<211> 567

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-C1

<400> 7884

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ttcccgcaat gtcacaagc tcttatagct tcccttcttc ccccgtagct ctcaccagcg 180
gtgtcttcgg tatgtgaaaa cccaattctt caacctaca ggatccaaca ggcaatcgca 240
gctggcatct tacctttatc acccttggtc ctccaacaat catcagccct attacagcag 300
ttacctttgg tgcatttatt ggcacaaaac atcagggcac aacaactaca acaacttgtg 360
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gcattgaact ctgcttctta tttgcaaaa caacaactac cattcagcca gctacctgtt 480
gcctaccccc acaattttct tccattcaac caactggcag cattgaactc tctgtcttat 540
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<210> 7885

<211> 568

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-C10

<400> 7885

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ggtaggata tgataatggt ccaatggaga ttaaccgact gagtgccga gttaattatc 180
atgctttgaa gttttttacct gacattgaag aaatggctga caagctagca acaaggatga 240
ggaatcgaac aggaagttta aatccatata tggctcttca cttgcgattt gagaaaggaa 300
tggtgggcct ttcattttgt gatcttgctg gaacccggga ggagaaagct atgatggcta 360
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cgcttcaaaa gagaaaagaa ggccgctgcc cccttgagcc tggggaaata ggaatcattt 480
tgcgcgcaat ggggtatacg aaggaaactc agatatatgt tgcacaggg ccaggtgtat 540
tggtgggaac aacagaatgg cacccttg 568

<210> 7886

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-C11

<400> 7886

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cagaatataa gagacgtgtt aaactgcagg cgaagcagta ccccgcttg ctagtgtctt 180
gaatggaaga ctaaagaaca aggtcaacat gaggaagact actataaaga ttgtgaggag 240

<210> 7887

<211> 575

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-C12

<400> 7887

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agcaacaaca attcctacca gcactgagcc acctagccat ggtgaaccct gccgcctact 240
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 ctacatacct gcaacaacaa ttgttgcaac agattgtacc agctctgact cagctagttg 480
 tggcaaacc tgctgcctac ttgcaacagc tgcttccatt caaccaactg actatgtcga 540
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<210> 7888

<211> 563

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-C2

<400> 7888

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 aattgctgca acagattgta ccagctctga ctgagctagc tgtggcaaac cctgctgcct 240
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 aacagcgaca acagttactt aatccactag cagtgcctaa ccattgggtc actgccttcc 360
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 ggcagcaacc catcggttga ggtgccatct tttagattac atatgagatg taatcgataa 480
 tgggtgcctc ataccggcat gtgtttccta gaaataatca atatattgat tgggaaaaaa 540
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<210> 7889

<211> 558

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-C3

<400> 7889

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gccgcctact tgcaagagca gctgcttgca tccaaccac ttgctctggc gaacgtagtt 420
gcaaaccagc aacaacaaca gctacaacag tttctgcaa cgctcagtc actagccatg 480
gtgaaccctg ccgcctacgt acaacaacaa caactgcttt catctagccc gctcgtgtg 540
ggcaatgcac ctacatac 558

<210> 7890

<211> 558

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-C4

<400> 7890

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ggtgcattta ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa 360
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<210> 7891
 <211> 572
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-078-Q1-K6-C6

<400> 7891

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caattttccc tcaatgctca caagctccta tagcttccct tcttccccca taccttccat 180
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<210> 7892
 <211> 533
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-078-Q1-K6-C8

<400> 7892

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<210> 7893
 <211> 560
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 7893

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<210> 7894
 <211> 559
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 7894

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<210> 7895

<211> 573

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-D10

<400> 7895

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<210> 7896

<211> 567

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-D11

<400> 7896

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 cgccttgcca agtttatgga aggaaggag aagaacattg ctgtcattgt tggcacagtc 300
 acagatgaca aaaggatcca ggagggtcca gcaatgaagg ttactgccct gaggttcacg 360
 gagacagcaa gggccaggat tgtcaatgct ggtggcgagt gcctcacatt tgaccagctt 420
 gctcttcgtg ctccacttgg cgagaacacg gtcctcttga ggggccccaa gaatgcccgt 480
 gaggcagtga ggcactttgg caaggctcct ggagtgccgc acagccacac caagccgtat 540
 gtgcgctcca agggaaggaa gttcgag 567

<210> 7897

<211> 99

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-D3

<400> 7897

tctcccagcc gtctcacagc cactcaccg ctccctccag ccctcaacct cgccggccct 60
 agactgctgg gttcgcccgc ggaccgcggg gcttctcca 99

<210> 7898

<211> 548

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-D4

<400> 7898

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 agcgcttagt caactagcca tgggtgaacc tgccgcctac ctacaacagc aacaactgct 180
 ttcacttagc ccgctcgctg tggccaatgc acctacatac ctgcaacaag aattgttgca 240
 acagattgta ccagctctaa ctgagctagc tgtggcaaac cctgttgctt acttgcaaca 300

gctgcttcca ttcaaccaac taactatgtc gaactctgtt gcgtaacctac aacagcgaca 360
 acagttactt aatccattgg cagtggctaa cccattggtc gctgccttcc tacagcagca 420
 acaattgctg ccatacaacc ggttctcttt gatgaatcct gtcttgctga ggcagcaacc 480
 catcgttgga ggtgccatct tttagattac atatgagatg tactcgataa tggtgccctc 540
 ataccggc 548

<210> 7899

<211> 563

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-D5

<400> 7899

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 tggaaacctt atggatgtga tcttccacca tttgatgcag taagatttct agattctatg 120
 agaaacaaag ttggggacta attggtgact ccatcctccg taaccaagtt cagtcattgc 180
 tttgcttct gtctaaggct gaagaacctg ttgaggttta ccatgataac gaattcaaaa 240
 acaggagatg gcacttccaa tctacaact tcacagtgtc catcgtctgg gctcctttcc 300
 tcatcaaata tggatatttt gagaatgagg atggcgtgtc tacctctgaa atacagctcc 360
 accttgatat actcgatgct aactggacaa gtcagtatga gagctttgac tatattatta 420
 tttctggcgg acaatggttt ctgaggacag cggctctactg ggagaacggc gcagtgggtn 480
 ggtggtcata attctcagaa caagaacctc gctgaacttg gttttgagca cctgtatcgg 540
 aaaactctac aaaacgtttt caa 563

<210> 7900

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-D6

<400> 7900

caaccatata gcttcaacaa gcaatcgag caagcaacat acctttatcg ccttgggtgt 60

ttcaacaatc accagcccta tcttttggtgc agtcattggt acaaaccatc agggcacaac 120
agctgcagca actcgtgcta cctgtgatca accaagtagc tctggcaaac ctttctccct 180
actctcagca acaacaattt cttccattca accaactgtc tacactgaac cctgctgctt 240
atttgcagca acaactatta ccatttagcc agctagctac tgcctactct cagcaacaac 300
aac 303

<210> 7901
<211> 578
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-078-Q1-K6-D7

<400> 7901

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gctgaanacg cgctgagaaa caaanaaggc gtgcattctc agaaagaatc tcctgtgatg 120
catataacag atttaacaac tgtatctgca aagaaggcca aagattttct tcccttcttg 180
cagcgggaaca gaaggcattc ggccatcggt gaatatgttt ttagtggcca tcggttcaaa 240
ctaacaattc ccaaggagac ttgtagtatc gccttctcat tatctgggtg ccgttgtcct 300
ggtaaaggcg agccatactc agacgaagct attgctttga tgaggagaag gatacttcaa 360
cgagatgtgg agatagaggt tgaagcagtt gataggacag gaacgttcat aggttctttg 420
tgggagtcca agaccaacat gggctctgtg cttctggaag ctggacttgc caagctgagt 480
tcatttggct tggataggac ctcatgct tatatcctaa caagagctga acagtctgcg 540
aagcaacaga agattaagat atgngagaa ctatgtcg 578

<210> 7902
<211> 533
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-D8

<400> 7902

tcccactctg tcgccagcgt cgcccgctgc cgctgagatc ctaggaagaa aggagctctc 60
tcgcaagctc ttcacggccg tcctcctcgt catgctgctg ctgctgtccg cagaggtcgg 120

gcccgtggcg gtggcggagg cgcggacgtg ccagtcgcag agccacaggt tccggggccc 180
 ctgcctccgc cgggtccaact gcgccaacgt ctgcaggacc gaggggttcc ccggcggcag 240
 gtgccgcggc ttccgccgcc gctgcttctg caccacgcac tgccactgat tcgctcgccc 300
 agcggccggc tggcgtcgcc gtcgatcgcg tcgcgaccag tccatggctc catgcatgaa 360
 taacaagggt gtgcgcggtt tgtgatgcca aattgtatcg tcgtcgtgtg ttgaagcgtt 420
 cgatcgtcgg tctagtagtg tgctgtgag cagcggcgtg ctgttgtacg tacgtctgcc 480
 tctgttgttc catgtttcgg gattttccat agcaaatgca tgcgtcgaga tct 533

<210> 7903

<211> 597

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-D9

<400> 7903

ccggtcgacc cagcgtccgg caacatagna aagcacaata gtgtaccaac aatggcagcc 60
 aaaatttttg cctccttatg ctcccttggtc tttctgcaag tgctgctacg gcgaccattt 120
 tcccacaatg ctcaaacgt cctatagctt cctttcttcc cccgtacctc tcaccagcgg 180
 tgtcttcggt atgtgaaaac ccaattcttc aaccctatag gatccaacag gcaatcgag 240
 ctggcatctt acctttatca cccttggttc tccaacaatc atcagcccta ttacagcagt 300
 tacctttggt gcatttattg gcacaaaaca tcagggcaca acaactacaa caacttgtgc 360
 tagcaaacct tgctgcctac tctcagcaac aacagtttct tccattcaac caactagctg 420
 cattgaactc tgcttcttat ttgcaacaac aacaactacc attcagccag ctatctgctg 480
 cctaccccca gcaatttctt ccattcaacc aactgacagc tttgaactct cctgcttatt 540
 tacagcagca acaactacta ccattcagcc agctagctgg tgtgagccct gctacct 597

<210> 7904

<211> 552

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-E1

<400> 7904

anagaagaga gggatctcgt cgacacgccg tcgggaacgc gtcccccggt cctcgcgcgc 60
tgccccgcac ggtgccgttc tcgcccgaat cggcgaatcc ctcccaccgc ttcgcctata 120
aatctcccc tctgtggccc tgatcctccc gtacaacagt gccagtgcc caccgcggca 180
gatcttcgac gcctccgagg gcgatggagg aggacggcgg ctccggcagc gatagcatgg 240
agttcgtcgc gggagcggag actagcgctg gcgcaggcac aaacgccggc aggaaccgcg 300
gcggtgggtgc agggaccagc gtaggcggtg gcggcggcac gaagctgccg catgtgctgc 360
aaaagagttt cggcgagggt caagggattc tggagcacia ccgcgtcctg attcaggaga 420
tcagccagaa ccaggagacg cgcgacgcgg acggtctcag ccgcaacgtg gcgctaatac 480
gggagctcaa cactaatatc gcccggtcgc tggacctcta cggcgacatg tcagggtcct 540
tcgccccgcgc cg 552

<210> 7905

<211> 584

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-E10

<400> 7905

ttaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaagggggg gcccttttaa gggatcaaatt tttacttccc cttccttgca 180
actttatact ttttttttgg ggccccctaa attaatTTaa tggcccggtct ttttaaaacg 240
ttggaattgg aaaaaccttg ggttacccaa attaaatggc tttgaaaaaa atccccTTTT 300
tcccagttgg gttaatagca aaagggcccc acccgttccc ctttccaaaa atttgccaac 360
cttaattgga aattggaacc ccccttttag cgccattta agcggggggg gtgggggggtt 420
tccccccagg ggacccttta aatttgcaag ggccttagcc cccggtttttt aggttttttt 480
cctttctttt ttcccaattt ttgccgtttt tccccttaaa gttttaaatg gggggctcct 540
tttaggggtcc cattttatgg ttttagggac ctttgcccca aaaa 584

<210> 7906
<211> 562
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-E11

<400> 7906

agcgaacaca ttagcaacaa cctaacaaca atggctacca agatattatc cctccttgcg 60
cttcttgcg c tttttgcgag cgcaacaaat gcgttcatta ttccacaatg ctcaacttgct 120
ccaagttcca ttattacaca gttcctccca ccagttactt caatgggctt cgaacaccca 180
gctgtgcaag cctataggct acaacaagca attgcggcga gcgtcttaca acaaccaatt 240
tcccagttgc aacaacaatc cttggcacat ctaacaatac aaaccatcgc aacgcaacag 300
caacaacaat tcctaccagc actgagccac ctagccatgg tgaaccctgc cgcctaattg 360
caacagcagt tgcttgcac aaaccactt gctctggcaa acgtagttgc aaaccagcca 420
caacaacagc tgcaacagtt tctgccagcg ctcaagtcaac tagccatggg gaaccctgcc 480
gcctacctac aacagcaaca actgctttca tctagccgcg tcgctgtggc caatgcacct 540
acatacctgc aacaacaatt gt 562

<210> 7907
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-E2

<400> 7907

ggctgggtat cctggtttct ttttttttgt tgggtttttc cctttttggg tttgtttttt 60
tgggtgtggc ccccggtggc cttttccctt tgggcctttt tgtgtggggc ccccccttg 120
cccttctttt tcccgccggt ttgggtggcc ccccggttcc ctttcttttc cgtgcccttg 180
gcccccttcc ttgggttttt tctttctttt tggccctttt ccccgttttc cccctaggg 240
ttttaattgg gg 252

<210> 7908
<211> 560
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-E3

<400> 7908

cagctcccat atccgctccc ctacctctcc agcatcctcc cgtctccgtc gtctcgtctc 60
cgctcctcac ctgcgcagcc atgggcaaga tcaagatcgg aatcaacggt ttcggaagga 120
tcggcaggct cgtggccagg gtcgccctgc agagcgagga tgctgagctc gtcgccgtca 180
acgacccctt catcaccacg gattacatga cgtacatgtt caagtacgac accgtgcacg 240
gccaatggaa gcacagcgac atcgccctca aggactccaa gacgcttctc ttcggcgaga 300
agccgggtcac cgtctttggc atcaggaacc ccgaggagat cccgtggggg gaggctggtg 360
ctgagtatgt cgtggagtcc accggtgtct tcaactgaaa ggacaaggct gctgcacatc 420
tgaaggggtg tgccaagaag gttgttatct ctgccccaaag caaagatgcg cccatgtttg 480
ttgttgggtg caatgaggac aagtacacct ccgatgttaa cattgtttcc aatgctagct 540
gcaccacaaa ctgccttgct 560

<210> 7909

<211> 512

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-E4

<400> 7909

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gcctccttat gtccttgggt ctttctgcaa gtgctgctac ggcgaccatt ttcccacaat 120
gtcacaagc tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg 180
tatgtgaaaa cccaattctt caaccctata ggatccaaca ggcaatcgca gctggcatct 240
tacctttatc acccttggtc ctccaacaat catcagccct attacagcag ttacctttgg 300
tgcatttatt ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc 360
ttgctgccta ctctcagcaa caacagtttc ttccattcaa ccaactagct gcattgaact 420
ctgcttctta ttgcaacaa caacaactac cattcagcca gctatctgct gcctaccccc 480
agcaatttct tccattcaac cattgttctt na 512

<210> 7910

<211> 601

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-E5

<400> 7910

tccgtccgaa tccccggtcg acccagcgtc cgggcactcc ttttccccgt cagaagtccg 60
cgccggcaga gaagtgtctg cctcctcgtc cgtggagggtg gtcgacatca tccgggaggc 120
caaggacagg atggccgtcg agttctcccc cttcgtctggg gaggagacgg accaggaccc 180
gttccagatg accttcaact acgagtccat ctacgtctcc gactggagca agctcggctt 240
ctccgaggtc gactacggct tcggcccgcc catcttcgcc ggcccgtcg tcaacaacga 300
cttcacgcc tccgtcgtca tcctcaaggc gccgctcccc ctcgacggca ccaggatgct 360
cgccagctgc gtcaccaagg aacactccga ggagttcgcc cgtggcatga aggaagacct 420
gccctgaact tgttcttctt agcttattat atactgctga tgatcatcct gagtccctggc 480
tgcagggaga tgatgaatgg tgacgtaaac atgcatgctt ctgtttcgtt gacgacttga 540
cgctgttggtt acttttggtt gtattttttt ggggttcact ttatcttggt cgatacgtac 600
c 601

<210> 7911

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-E6

<400> 7911

caaccaactt gctttgacaa acccaacagc attctaccaa caaccatca ttggtggtgc 60
cctcttttag atttcttatg agttatagtt caataataaa gttttttgtc tgatgtttgt 120
ggcttcccag aaataagaaa gtacatttct agaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aattaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagggggggc 300
cgctttttta aagaaccaa ttttctccc cggggtttgc aacgtaaaat tttttttttg 360

gggcccccaa attaaattcc ctgggcccggg ttttaaaaac gggg

404

<210> 7912

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-E7

<400> 7912

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taaaaagaca taaaaacata cttgcgacta ataagccaaa aaagtgagtg acaacaaatg 120

caaaaataaa aaaaaaaaaa aaaaaactag gctacaagag ccaattataa acacaaaaac 180

tccggggccgc ccccttttagg ggctccaaac tcccatccgc gcgagggcgc cggcttcac 240

ttgttttagc ggcccagcac tttaattacc cgggcccgc ttttacaacg gcggtcctgg 300

gaaaatcctt gccgtgccca ccatttataa cgcttggagc gacatccact tttccccttg 360

ccgtttttta ccctatggcc cactcgcac gccttctcct tgggtggaac ccacttgggt 420

gggaaggggt cgccccctac caggggcatc aacacggggg gg 462

<210> 7913

<211> 584

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-E9

<400> 7913

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tgcgcttctt gcgctttttg cgagcgcaac aaatgcgtcc attattccac aatgctcact 120

tgctcctagt tccattattc cacagttcct cccaccagtt acttcaatgg ccttcgaaca 180

cccagctgtg caagcctata ggctacaaca agcgattgag gcgagcgtct tacaacaacc 240

aattgcccaa ttgcaacaac aatccttggc acatctaaca atacaaacca tcgcaacgca 300

acagcaacaa cagttcctac cagcactgag ccacctagcc atgggtgaacc ctgtcgctta 360

cttgcaacag cagctgcttg catccaaccc acttgctcta gcaaacgtag ttgcaaacca 420

gcaacaacaa caactgcaac agtttctgcc agcgcttagt caactagcca tgggtgaacc 480

tgccgcctac ctacaacagc aacaactgct ttcattctagc ccgctcgctg tggccaatgc 540
acctacatac ctgcaacagn aattgttgca acagattgta ccac 584

<210> 7914
<211> 255
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-078-Q1-K6-F1

<400> 7914

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ttttatgccc caactacccc cactaacgcg atgcgaggtt ggctccaagt tattattcaa 120
gaaaaaggag aagccacaaa atctgcaggt tctgttatca caaatggag catcaaacgg 180
aatgatccc ttgggccttc ctcaactctg tgtgcgcctg aatactcttc agtacatccg 240
tgggtgaagt ttgag 255

<210> 7915
<211> 483
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-F10

<400> 7915

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accgccaatg ccaccgccc gagcgcgcgc cgggccccgg cgccgggtccc gcgcaagggt 120
agcagcgcgc cgtgctcccg tagcaactcc cgcggggagt cctccgggccc tgtgccgacc 180
atccccaccg ccaactgcaac tgcagcgcca gaagcagcag ccggagaaga agacgccgac 240
gcgggccacc aggttcaggc ggcgccactg accgccgcgc gcacatccag cgccacgtcc 300
atgttgagga ggtgggtgcc cggacagggc cgtaataaca acaacgcagc agggccccggc 360
ggcatccgcg tggggcggcc cagcgccgtg tggaagctga ggcgcaaaa gctgcagcaa 420
accgccgcgc agcagaagca ggtgggcggc aagaagaagg cggccccggc ccaggaacct 480
gcc 483

<210> 7916

<211> 556

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-F11

<400> 7916

cttagcaaca tacatagtga agtacactag caacatctta gcaccaatgg cagccaagat 60
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acaatgctca caacaatacc tctctccggt gacagccgcg agatttgaat acccaactat 180
acaatcctac aggctacaag aggccatcgc agcaagcatc ttacggtcgt tagcattgac 240
cgtccaacaa ccatatgccc tattgcaaca accatcctta atgaatctat atctccaaag 300
aatcgcagca caacaactac aacaacagtt gcttccaaca atcaatcaag tagttgcagc 360
gaaccttget gcttacctcc agcaacaaca atttcttcca ttcaatcaac tagctggggg 420
gaaccctget gcttacttgc aggcacaaca gctactacca ttcaaccaac ttgtcaggag 480
ccctgetgce ttcttactgc agcaacagtt gcttccattc catctacaag ttgtggcaaa 540
cattgetget ttcttg 556

<210> 7917

<211> 568

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-F2

<400> 7917

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gtccgagcag ggagtcgtga tcgctgcca cagcaaggct gagtttgacg cccacatgac 120
caaggcccag gaagccggca agctggtggt catcgacttc actgccgcct ggtgcgggtcc 180
atgccgcgcc atgccccac tgttcgtcga acacgccaag aagttcactc aggtcgtctt 240
cctgaagggtg gacgtggacg aagtgaagga agtcaccgcg gcctacgagg tcgaggcgat 300
gccgaccttc cacttcgtca agaacggcaa gacggtcgcg accatcgtgg gtgccaggaa 360
ggacgagctc ctggccctga tcgagaagca tgccgcgcct gcgcctgcga ctgcgtctgc 420

ctaaatgaga tcagatcagt cgtcgccgctc aataagggcc agcacgtatg gctgtaaattg 480
 ttgtcgttat cagttctggc tttgtcgttt gtgggcgatt tgtgaactag tagtatgttt 540
 gtttctatcc gagccggagg cgatactt 568

<210> 7918

<211> 549

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-F3

<400> 7918

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 tgacgctgtg tctatccatt cgtgttgagg aaaaacaacg ccaatcaatc cagtccaggg 120
 taagggctat ggccgaccgc taggatcgcc tctgcacca cctgcggcct caccgacctg 180
 gccattggca tactaccccg cgccggcgctc acgctggacg tgggtgcgccg gatgcgccag 240
 ctactacgcc gatccaaggc cctgtgactt gccccatcc tcgaggagtc cgacggtggc 300
 attcactctg ctttcgacgt aactccttg ggccgaagcc agagccaggg ccagaccgta 360
 gtcacctcct cactgccagc gcgtgcctga ggatctgaac catcaaatac gagaccttga 420
 gcttcttgcc ataggacatg ctggggactt gttgttaaatt gctaacattt tagaacaagg 480
 caacataaaa agtgctaagt gttaaagtcc ttgctgctta aaaggattat ataccttcgg 540
 gaaataatg 549

<210> 7919

<211> 531

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-F4

<400> 7919

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 ttttgactac cgtattgggt gtcgaaagcc tggggtgtat aagggtggtct tggactccga 120
 cgctggacta tttggtggat ttagcaggat ccatacgcga gccgagcact tcaccgccga 180
 ctgttcgcat gataataggc catattcggt ctcgggtttat acaccaagca gaacatgtgt 240

cgtctatgct ccagtggagt gatagcgggg tactcgttgc tgcgcggcat gtgtggggct 300
 gtcgatatga ggaaaaacct tcttcgaaaa ccggcagatg catgcatgca tgctacaata 360
 aggttctgat actttaatcg atgctggaaa gcccatgcat ctcgctgcgt tgtcctctct 420
 atatatttaa gaccttcaag gtgtcaatta aacatagagt tttcgttttt cgctttccta 480
 atgcttgatg gctgattgtt tgcaaaanaa aaaataccaa caacntttt t 531

<210> 7920

<211> 585

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-F6

<400> 7920

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 tgccagccac cgccgcccgt tcctctaccg ccgcccgtgc atctgccacc tccggttcac 180
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 caaccgcccc ggcctcagcc tcctccccag ccacacccat gcccggtgcca acagccgcat 360
 ccaagcccgt gccagctgca gggaacctgc ggcgttgcca gcaccccgat cctgggccag 420
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 tgccagtcgt tgcggcagca gtgttgccag cagctcaggc aggtggagcc gcagcaccgg 540
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<210> 7921

<211> 590

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-F8

<400> 7921

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 acaactcgtg ctaccagtga tcagccaagt agctctggca aacctttctc cctactctca 420
 gcaacaacaa tttcttccat tcaaccaact gtctacactg aacctgctg cttatttaca 480
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<210> 7922
 <211> 611
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-078-Q1-K6-F9

 <400> 7922

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 aacatacctt tatcaccctt gtttcaacaa tcgccagccc tatctttggt gcagtcattg 180
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 tctacactga acctgctgc ttatttgag caacaactat taccattcag ccagctagct 360
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 gctgcttatt tgcagcagca aatattacta ccatttagcc agctagctgc agcaagccgt 480
 gcttcttct tgacacagca acagttgctg ctttctacc agcagtttgc ggctaacccc 540
 gcaaccctct tacaactaca acaattgttg ccctttgtcc aacttgcttt gacaaaccca 600
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<210> 7923

<211> 483
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-G1

<400> 7923

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tgcctactct cagcagcaac aatttcttcc atttaaccaa ttggccgcac tgaaccctc 180
tgcttatttg cagcagcaaa tactactacc atttggccag ctagctacaa caagccccgc 240
ttccttcttg acacaacaac aagtgcctcc gttctacag cagtttgtgg ctaaccctgc 300
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agccttctac caacaacaca tcattggcgg tgcctcttt tagattgctt attagttgta 420
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tcc 483

<210> 7924
<211> 601
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-078-Q1-K6-G12

<400> 7924

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gggggggtgg gtgggggggg ggggtgggtg tgttgtgggg gggggggggg gggtnnttnt 180
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gggggggggg gggggggggg gggggggggg gttgggggtg gggggggggg gggggggggg 300
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gggtgggtg gggggggggg tgggtggggg ggggggtgg tgggtggggg ggggtggggg 480
gggggggggg gnnggggggg ggggggtggg ggggggtgg ggggtggggg gggggggngt 540

gggggggggg gggggggggg ggggtgtggtg ggtggggggg gggggggggg ggggaggggtg 600
g 601

<210> 7925
<211> 571
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-G2

<400> 7925

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cctagccgtc gccacccatc gcctacagcg acagccgtct tccgtcacag cggagcgccc 180
ctcagatcca agggacgtg cagcagcgca agagcagggt gttgagaagg ggaatataat 240
catggatatc atgcagacta gtgactcttc acatcatgga attgtagaaa atagcccgtc 300
cagaattcca tatgacagac atgcagaagg tgggtcaactt ggtgcttcat ggtatttttag 360
tagaaaagaa atagaggaga attccctttc gaggagagac ggcattgatc tgaagaaaga 420
gtcttatctt cgcaagtcac attgcacatt tctgcaggat ttggggatga gacttaaagt 480
acctcaagtg acaattgcta ctgctatagt gttctgtcat cggttctttc ttcgtcaatc 540
gcatgccaaa aatgacagac ggacaattgc a 571

<210> 7926
<211> 121
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-078-Q1-K6-G3

<400> 7926

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gacaacgtcg gcgtgctcaa gctcgccggg tgcccgtcgc gcgctgttcg tgttcgtccc 120
c 121

<210> 7927

<211> 564
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-078-Q1-K6-G4

<400> 7927

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gcttccttat gtccttgggt ctttctgcaa gtgttgctac cgcaaccatt ttcccacaat 120
gttcacaagc tcctatagct tcccttcttc ccccatacct ctcaccagcg gtgtcttcaa 180
tgtgtgaaaa cccaattggt caaccctaca ggatccaaca ggcaatcgca acaggcatct 240
taccattatc acccttggtc ctccaacaac cgtcagccct attacagcag ttacctttgg 300
tcattttggt ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc 360
ttgtgcata ctctcagcaa catcagtttc ttccattcaa ccaactggct gcattgaact 420
ctgtgtgctta tttgcaacaa caattaccat tcagccagct agttgctgcc tacccccagc 480
aattttcttc attcaaccaa ctagcagcat tgaactctgc tgcttattta cagcagcaac 540
aactactacc attcagccag ctac 564
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<210> 7928
 <211> 580
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-078-Q1-K6-G6

<400> 7928

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atggcgacca agatacttct cctccttatg ctcttgctc tttctgcatg tgttgctaac 120
gcgacaattt tcctcaatg ctcaagct cctatagctt cccttcttcc cccatacctt 180
ccatcaatga tagcttcagt atgtgaaaac ccagctcttc aaccctatag gctccaacaa 240
gcaatcgag caagcaacat acctttatca cccttggttc aacaatcgcc agccctatct 300
ttggtgcagt cattggtaca aaccatcaag gcacagcagc tgcagcaact cgtgctacct 360
gtgatcaacc aagtagctct ggcaaacctt tctccctact atcagcaaca acaatttctt 420
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ccattcaacc aactatctac actgaaccct gctgcttatt tgcagcaaca actattacca 480
 ttcagccagc tagctactgc ctactctcat caacaacaac ttcttccatt taaccaattg 540
 gccgcactga acctcgctgc ttatttgcag cagcaaatat 580

<210> 7929

<211> 557

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-H12

<400> 7929

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 attgttcttc ccgggcttgt tcagggtcca ggggtggagtc cttatactgc gcaaattggg 180
 tcttcctcct cggaggacca acaacggaca cctggagctg ctcaatacta tactggctca 240
 cgccaaagtg gtactagtat aggcgatcaa ggaatgtttt catcctacca agcagggttct 300
 gttcctgttg gacttttatgc agtacagagg gagaatttat ttccagagag acctgaccaa 360
 cctgaatgtc agttctatat gaagaccgga gactgtaagt ttgggtgctgt atgcaagtgc 420
 catcatccca gggagcgaat aattcctact cccaattgtg cactgagtcc attaggccta 480
 cctttgcgcc cgggagagcc aatatgcagt ttctacaatc gctacggcat gtgcaagtgc 540
 ggtccaaatt gcaaatt 557

<210> 7930

<211> 554

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-H2

<400> 7930

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 cccttcttcc ccggtacctc tcaccagcgg tgtcttcggt atgtgaaaac ccaattcttc 180
 aaccctacag gatccaacag gcaatcacag ctggcatctt acctttatca cccttggttc 240

tccaacaatc atcagcccta ttacatcagt tacctttggt gcatttattg gcacaaaaca 300
 tcagggcaca acaactacaa caacttgtgc tagcaaacct tgctgcctac tctcagcaac 360
 agcagtttct tccattcaac caactagctg cattgaactc tgcttcttat ttgcaacaac 420
 aacaactacc attcagccag ctacctgctg cctacccccca gcaatttctt ccattcaacc 480
 aactggcagc attgaactct cctgcttatt tacagcagca acaactacta ccattcagcc 540
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<210> 7931

<211> 197

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-H3

<400> 7931

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 acgaccgagg ctgtgtatgt tgcccgcctg gtgctcaact ggagcaaaaa taaagccaac 120
 aaaacaagca cgtgtgatct ctatgtcacc aactctatca ccttaattaa tggggcatta 180
 tgaagttggt tctttac 197

<210> 7932

<211> 567

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-H5

<400> 7932

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 gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtgt cttcggtatg 180
 tgaaaaccca attcttcaac cctacaggat ccaacaggca atcacagctg gcattctacc 240
 tttatcacc ttgttcctcc aacaatcatc agccctatta catcagttac ctttggtgca 300
 tttattggca caaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360

tgcctactct cagcaacagc agttttcttcc attcaaccaa ctagctgcat tgaactctgc 420
 ttcttatttg caacaacaac aactaccatt cagccagcta cctgctgcct acccccagca 480
 atttcttcca ttcaaccaac tggcagcatt gaactctcct gcttatttac agcagcaaca 540
 actactacca ttcagccagc tagctgg 567

<210> 7933

<211> 568

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-078-Q1-K6-H6

<400> 7933

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 ggggctgtgg ctgccagaca ccaccgttcc atctaccgcc tccgttctat atgccgcctc 180
 cgttctatct gccgccgcag cagcagccgc agccatggca atacccact caaccaccgc 240
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 cgccacagtg ccaggcgctg cagcagcagt gctgccacca gatcaggcag gtggagccgc 420
 tgcaccggtg ccaggcgaca tacggtgtgg tcttcagtc ctctctgcag cagcagccgc 480
 agggcgagct cggggcgctg atggcgccc aggtagcgca gcagctgacg gcgatgtgcg 540
 gcctgcagct gcagcagcca ggtccctg 568

<210> 7934

<211> 181

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-H8

<400> 7934

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 agcagctagg aacacctttt ggtgatttct tgatcctgtg gccgacaagc ttatggtagc 180

<210> 7935

<211> 553

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-078-Q1-K6-H9

<400> 7935

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tgccagtgcct cagtcaacta gccatgggtga accctgccgt ctacctaaa ctactttcat 120

ctagcccgct cgcgggtgggc aatgcaccta cgtacctaca acaacagttg ctgcaacaaa 180

ttgtaccagc tctgactcag ctagctgtgg caaaccttgc tgccacttta caacagttgc 240

ttccattcaa ccaactggct gtgtcaaaact ctgctgcgta cctacaacag cgacaacagt 300

tacttaatcc attggcagtg gctaaccatc tggctcgtac cttcctgcag cagcaacaac 360

aattgctgcc atacaaccag ttctctttga tgaaccttgc cttgcagcaa cccatcgttg 420

gaggtgccat ctttttagatt acatatgaga tgtactcgac aatggtgccc tcataccgac 480

atgtgtttcc tagaaataat caatatattg attgagattt atctcgnnnn naaaaaannnn 540

tnnnnnaann naa 553

<210> 7936

<211> 568

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-079-Q1-N6-B6

<400> 7936

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tttgggaagc actgaaagcc acctctggtg acattaagca atgccagcga acatagcctg 180

tgaggtgcc tcatatctag cttgcaagca atcatggcac ccatggagtg gccgaagacg 240

tgagccttct tccaccccaa atgatccatc aaggccaagg catccgtcgc catgattgcc 300

gtcgaagtagt aggatttggt ggggagcacg gagctgtggc cgacaccgcg attgtcgaag 360
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gcctcctcat ccggccacag ggccctcgctg taggagggct ccagcgaccc ggtcggcccc 480
tttatctgcg agccccagga gtcgaataa ggcgaagagg gtcgatcccc atctggctgc 540
cgtctccgcg aactcccgt cggtgtcg 568

<210> 7937

<211> 515

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-079-Q1-N6-C2

<400> 7937

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tttgtcaaag caagttgggt gaatggcagc aattgttgca gttgtaagag ggtgccagcg 180
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aatggaagaa actgctgttg ctgagagtag gcagcaaggt ttgctagcac aagttgttgt 480
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<210> 7938

<211> 555

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-079-Q1-N6-C3

<400> 7938

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tgttgggttt gtcaaagcaa gttgggtgaa tggcagcaat tggtgcagtt gtaagagggt 180

gccagcggtta ggcgcagcgt gcaggtagaa cggcaacaac tggtgtgtg tcaagaaggc 240
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gttgaatgga agaaactgct gttgctgaga gtaggcagca aggtttccta gcacaagttg 480
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taaggctgac gggtg 555

<210> 7939

<211> 522

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-079-Q1-N6-D8

<400> 7939

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gctgggtgat gcatgggtct gctggagccg aggatgaaca cagcactaac aactgacaca 180
gagcgacctt gcaatcaaaa acacagatgg gcaacaacaa acgagacgaa cgaagataaa 240
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ccgtagccgt caccaccacc accgtagcca ccgccggcac cgtagccgcc gtcggcaccg 420
tcgtagccgc cgccgccatc acggcgcccg ccaccgccgt agccgccgcc tccacgggtca 480
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<210> 7940

<211> 549

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-079-Q1-N6-D9

<400> 7940

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atgcatgcat ctgccggttt tggaagaagg tttttcctca cattgacagc cccacacatg 180
ccgcgagca accagtaccc cgctatcact ccaactggagc atagaccaca catgttctgc 240
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gctcggctgc gtgatggatc ctgctaaatc caccaaatag tccagcgtcg gagtccaaga 360
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agtggaagtt gaacacaaat accaaatctc ccttttcgaa cacaatcacc ttatcctcct 480
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ttgcattgc 549

<210> 7941

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-079-Q1-N6-E7

<400> 7941

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tgccacaaca aggcagggtt catcaaagag aactgggttg atggcagcaa ttgttgctgc 180
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aagtaggcag cagggtttgc cacagctagc tgagtcagag ctggtacaat ctgttgctgc 360
aactgttggt gcaggatatgt aggggtgcatt aaccacagcg agagggttag atgaaatcag 420
ttgttgct 428

<210> 7942

<211> 552

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-B10

<400> 7942

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tcatcatcat cgctaagctc ttcactactg gacttgctctt ccgggggtgat gccagcgtcc 180
tctgggttag catacttttc acaatattct ttcactttct gttcataaac aggccgatca 240
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tgcacccgt cg 552

<210> 7943
<211> 247
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3061-080-Q1-N6-B3
<400> 7943

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gttttttttt gtgttggtct ttgtttgggt tgtgcctgtt ttncgcctga ggttctgttt 120
ttttgtctct ccggtcagcc agttttttgg ggggggggtg ggtgnatcgt ggngaactct 180
cccgccgat cgccgggggt gattcagttt ctgggggggc gggctgtggc gttgatgcct 240
tcgggct 247

<210> 7944
<211> 567
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-080-Q1-N6-C10
<400> 7944

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cattattgaa ctataactca taagcaatct aaaagagggc accaccaatg atgggttggt 120
 ggtagaacac tgttgagttt gtcaaagcaa gttgggtgaa tggcagcaat tgttgagtt 180
 gtaagagggg gccagcggtta ggcatagcgt gcaggtagaa cggcaacaac tgttggtgtg 240
 tcaagaaggc agcagggctc acatcagcta gctggctgaa tggtagtagt tgttgctgct 300
 gtaaataagc agcagagttc aatgctgcta gttgggtgaa tggaagaaat tgctgggggt 360
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 cagccagttg gttgaatgga agaaactgat gttgctgaga gtatgcagca aggtttgcta 480
 gcacaagttg ttgtagttgt tgtgccctga tgttttgtgc caccaaattg accaaaggta 540
 actgctgtaa tagggctgac ggttggt 567

<210> 7945

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-D8

<400> 7945

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 gcaggcgggt tgggtcaaagc aaggtgggca aagggcagga accgtcggag ttgtaaaaag 180
 gagggggggg tagccacaaa ccgctgggtg aacggaagca cttgctgggtg ggtcaaaaaa 240
 gaagcggggc ttgctggacc tagctggcca aacaaaagga ggaattgctg gcggaaataa 300
 acaaaggggg tcagtgcggc caatcgggtta aatggaaaaa aaaaatgggtg gtttag 355

<210> 7946

<211> 516

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-D9

<400> 7946

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ctgcaaggca gggttcatca aaaagaactg gttgtttggc accaattgtt gttgctgctg 180
caggaaggta gcgaccaatg ggtagccac tgccaatgga ttaagtaact gttgtcgctg 240
ttgtaggtcc ccaccaaagt ttgacacaac cagttgggtg aatggaagca actgttgtaa 300
gtaggcacca gggtttgcca cacctagctg agtcaaagct ggtccaattt gttgcaccaa 360
ctgttggttg aggtacgcag gtgcattgcc caccgcgagc gggctaaata aaagaagttg 420
taggtagacg gcagggttca ccatggctag ttgactgagc actggcataa actgttgacg 480
ctgttggttg tgctggtatg cagctacttt cgccaa 516

<210> 7947

<211> 486

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-E6

<400> 7947

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atgggttgct gcaaggcagg gttcatcaaa gagaactggc tgtatggcag caattgttgt 180
tgctgctgca ggaaggtagc gaccaatggg ttagccactg ccaatggatt aagtaactgt 240
tgtcgctgtt gtaggtacgc agcagagttt gacacagcca gttggttgaa tggaagcaac 300
tggttgtaagt aggcagcagg gtttgccaca gctagctgag tcagagctgg tacaatttgt 360
tgcagcaact gttgttgtag gtacgtaggt gcattgccca ccgcgagcgg gctagatgaa 420
agtagttgta ggtagacggc agggttcacc atggctagtt gactgagcac tggcataaac 480
tgttgc 486

<210> 7948

<211> 552

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-E7

<400> 7948

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aactataact cataagcaat ctaaaggggg caccaccaat gatgggttgt tggtagaaca 120
ctgttgggtt tgtcaaagca agttggttga atggcagcaa ttgttgcaagt tgtaagaggg 180
tgccagcggt aggcatagcg tgcaggtaga acggcaacaa ctgttggttgt gtcaagaagg 240
cagcagggct cacatcagct agctggctga atggtagtag ttgttgctgc tgtaaataag 300
cagcagagtt caatgctgct agttggttga atggaagaaa ttgctggggg taggcagcaa 360
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ggttgaatgg aagaaactga tgttgctgag agtatgcagc aaggtttgct agcacaagtt 480
gttgtagttg ttgtgccctg atgtttttgg cccccaatg gaccaaaggt aactgctgta 540
atagggctga cg 552

<210> 7949

<211> 617

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-F10

<400> 7949

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ccattatcga gtacatctca tatgtaatct aaaagatggc accaccaacg atggggttgc 180
gccacgacaa ggcattggtc atcaaagaga actggttgta tggcagcaat tgttgctgct 240
gtaggaaggc agcgaccaat gggttagcca ccgctagtgg attaagtaac tgttgctgct 300
gttgtaggta cgcagcagag ttcgacacag tcagttggtt gaatggaagt agttggttga 360
agtaggcagc agggtttgcc acagctagct gagtaagagc tggtaacaatt tgttgcaagc 420
actgttggtt caacaactgt tgttgcaagc atgtaggtgc attgcccata gcgagcgggc 480
tagatgaaag aagttggtgc tgttgtaggt aggcgatagg gttcaccatg gctagttgac 540
tgagcgctgg tagaaactgt tgcaacttgt gtttggttgt gtatgcaact acctttgcca 600
aaacaagtgg gtttgga 617

<210> 7950

<211> 583

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-080-Q1-N6-F3

<400> 7950

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tttttttttt tttttttttt tttttttttt tttttttttt ttttgttttt tgcggggggg 120
ggccccctt atgggggggg gggccccacc cccgggaaaa aaccttttgt gggggcgcg 180
ccccagagg gaaccaagg gggggcccc ccacgggggg gggggggggg gaccccggg 240
ggggggggca aagcaggggg ggggaagggg ccattgggg gccgggggag gggggggccc 300
ggggtggggg ccccgggcg gtggaccggg cccaccgggg ggggggcaa gaggggtccg 360
ggggcccccc cgcgcgncgg gcggaagggg aagggtgggg gcggcggtaa ataggcgggg 420
gagcccccg cggccgggtg gggggggggg gaaaaatggg gggggggggg ccccgggggg 480
ccggcgggcg gggcgggggg ggggggggca ttttaaggccg gggtcagggg ccctgggggg 540
gggggggggg aaaaccgct gggggcgggc gggggcgggg ggg 583

<210> 7951

<211> 558

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-F5

<400> 7951

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attgaactat aactcataag caatctaaaa gagggcacca ccaatgatgg gttgttggt 120
gaacactgtt gagtttgtca aagcaagttg gttgaatggc agcaattgtt gcagttgtaa 180
gagggtgcca gcgttaggca tagcgtgcag gtagaacggc aacaactgtt gttgtgtcaa 240
gaaggcagca gggctcacat cagctagctg gctgaatggg agtagttgtt gctgctgtaa 300
ataagcagca gagttcaatg ctgctagttg gttgaatgga agaaattgct gggggtaggc 360
agcaactagc tggctgaatg gtaattgttg ttgcaaataa gcagcagagt tcaatgcagc 420
cagttgggtg aatggaagaa actgatgttg ctgagagtat gcagcaagggt ttgctagcac 480
aagttgttgt agttgttgtg ccctgatgtt ttgtgccacc aaatggacca agggtgataa 540

tggttaagatg cctgttgc

558

<210> 7952

<211> 546

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-F8

<400> 7952

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gcaccattgt cgagtacatc tcatatgtaa tctaaaagag gcacctcaa cgatggggtg 120
ctgcaaggca gggttcatca aagagaactg gttgtatggc agcaattggt gttgctgctg 180
caggaaggta gcgaccaatg ggtagccac tgccaatgga ttaagtaact gttgtcgctg 240
ttgtaggtag gcagcagagt ttgacacagc cagttgggtg aatggaagca actggtgtaa 300
gtaggcagca gggtttgcca cagctagctg agtcagagct ggtacaattt gttgcagcaa 360
ctgttggtgt aggtacgtag gtgcattgcc caccgcgagc gggctagatg aaagtagttg 420
taggtagacg gcaggggtca ccatggctag ttgactgagc actggcataa actgttgtag 480
ctgttggtgt tgctggtagt cagctacgtt cgccagagca agtgggttgg atgcaagcag 540
ctgctg 546

<210> 7953

<211> 561

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-F9

<400> 7953

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aattacaact aataagcaat ctaaaagatg gcaccgcaa tgatgtgttg ttggtagaag 120
gctgctgggt ttgtcaaagc aagttggaca aagggcagca actgttgtag ttgtaagagg 180
gttgcggggt tagccacaaa ctgctggtag aacggaagca attgttggtg tttcaaaaag 240
gaagtggggc ttgtttagtc tagctggcca aatggtagta gtatttgctg ctggaaataa 300
gcagaggggt tcagtgcggc caattgggta aatggaagaa attgttgctg ctgagagtag 360

gcagtagcta gctggctgaa tggtagtagt tgttgttggt gtaaataagc agcaggggtc 420
 agtgtagaca gttgggtgaa tggaagaaat tgttgttgct gagagtaggg agaaagggtt 480
 gccagagcta cttggctgat cactggtagc acgagttggt gcagctgttg tgcctgatg 540
 gtttgtacca atgactgcac c 561

<210> 7954

<211> 110

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-080-Q1-N6-G5

<400> 7954

ctctatacgg ccgccctttt tttttttttt tttttttttt tttttttttt tttttttttt 60
 tttttttttt tttttttttt tttttttttt tgggggaatt tttttttttt 110

<210> 7955

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-A10

<400> 7955

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 cggatatgagg gcaccattat cgattacatc tcatatgtaa tctaaagcag gcacctccaa 120
 cgatgggttg ctgccacgac aaggcatggt ggggcgagag agaactggct gtatggtagc 180
 aattgttgct gctgtaagaa ggcagtgacc aatgggttag gcaactgctag tggattaagt 240
 aactgttgtc gcgtgttggt ggtacgccgc agcgttcgac acagtcattt tgttgaatgg 300
 aatcagccgt tgcaagtcgg ccgcacggtt tgccacagtt ggctgagtga gacctgggtgc 360
 aatctgggtgc agcacattgt tagcgcaggt gttccgggtgc tttccccgct acg 413

<210> 7956

<211> 524

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-B11

<400> 7956

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gttggttagaa cgttgttggg tttgtcaaag caggggtggg gaatggcagc aattgttgca 180
gttgtaagag ggtacaaaa ataagcgcag cgtgcaggta gaacggcaac aactgttggt 240
gtgtcaagaa ggcaacaggg ctcacatcag ctagctggct gaatggtggt agctgttgct 300
gttgtaaata agcagcagag ttcaatgctg ccagttgggt gaatggaaga aattgctggg 360
ggtaggcagc agctagctga ctgaatggta gttgttggtg caaataagca gcagagtttc 420
aatgcaacca gttgggtgaa tggaagaaac tgctgttgct gagagtaggc agcaaggttt 480
cctagcaciaa gttgtttagt ttgttgcgcc tttgtgtttt tgtg 524

<210> 7957

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-B8

<400> 7957

aaaaaaaaatt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
ttttttatttt aaatttataa aaaaaaaaaa atataaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaag gggggggggg gggaaaaaaa aaaaaaaaaa aaaaacatca aaaaaaaaaa 180
aaaaaaaaaca a 191

<210> 7958

<211> 553

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-C2

<400> 7958

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actgacactg ccacccatgg tgatgcgtga cacattatta ctcaatcacc gccgctaaat 120
gactcaacta gctagctagc cagcggctat actacagcac atagtttctt cagtggggga 180

caccgccggc agcagcgtag gggcatggag tgggctgctg caggccgcac atcgccgtca 240
gttgctgctg tatctgcgcc gccaacagcc ccgcgacctg gccgctttgc ggctgctgct 300
gcaggatgga ctggaggacc aagccgaaga tgcctggta ccggtgctgc ggctccacct 360
gcctgagctg ctggcaacac tgctgccgca acgactggca ctgaggcgag cagtagggcg 420
tcgccgtcgg gctgcactga tgcctcaaga actcgacgca ctggcccagg atcggggtgc 480
tgccaacgcc gcaagttccc tgcagctggc acgggcttgg atgcggctgt tggcacgggc 540
atgggtgtgg ctg 553

<210> 7959

<211> 298

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-081-Q1-N6-E4

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ggggggggaac aaaaaaaaaa aaaaaaaaaaag aaggggcccc caaaaaaggg gtnggggggg 120
ggggggggggg gcccacacgg gggagggggg gccggcggag aaaaaaaggt caaggggggg 180
gggccggggg ntacaaaaag ccccccgaa aagggggggg gggggaaaaa gaacgtccct 240
ttaaaggggg ggggggagaa cccaacaaag ggggggggga caaaaggggg ggggccgg 298

<210> 7960

<211> 54

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-E5

<400> 7960

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<210> 7961

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-F2

<400> 7961

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tatcacaaga acaaatccgg atcccccttta attattgttc cggatgaacg atccgagaaa 120
tgcattcatc ttcttgcgtg gcttattatt cagacatatg agcttttttc tgggggttcc 180
tcatgcacta tgctcttcgc agttacttgg agggcattgt tccgcccccg agaatccagg 240
ggcattcggc gacgccgttg ttggtggccc ggttgctctc ggctccgtg gcgggggttg 300
cgtgcggtcc cc 312

<210> 7962

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-F4

<400> 7962

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gggggttggtt ggggggggtt ggtggggggt tggggggggg ggggggggcg gtcggtggaa 120
aggggggggaa agggcgtgtg gtgggggggg ggcgccgccg gctgagagag ctggcgggag 180
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gggggagggg gtgggccgcg gggggggggg gggggggccc gcctaagggg tattgggggg 300
gggggggggg gggcgccccg cccgcggggg gggggggggg gcgctcgttg gggaagagga 360
gaagagaggg g 371

<210> 7963

<211> 537

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-G3

<400> 7963

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attagtattc ttattcaa tcatagtaca aacatcataa tgtatggtac tttattgctt 120

aacaccgtta taggagtata acggttaggt agacacaatt cttcaattgc gagagcacca 180
 ctaatgtcat tgctgctgca tggattatct tggtagtatg agtggtacaa gccgcacatt 240
 gatggttaggt attgtgctgc tgtcaagatt gccaccgcac tttgagtagc ttgttgagat 300
 ccacataact cacatgggtg ttgttggtgc tcctcctgga ttatggattg aaccatgttg 360
 tagattgctt ggtgaatgta ttggggctca atctgcctaa gatcatgaca acattgttgc 420
 ttgcatacct ggcagctact tgggtgtatc aaacgtgatt gggagaaaag gcatttccca 480
 aaggctgcac ttgctgcctt taggaattca tgaccatttt tttagatttg agctact 537

<210> 7964
 <211> 235
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-081-Q1-N6-G5

<400> 7964

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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttttt tttttttttt ttttttttgg ggggaaaaaa aaaaaaaaaa aagtggttat 180
 cccccacaaa aaaagggccc cccttttttt ttgggggggg gagcaacccc ccctc 235

<210> 7965
 <211> 348
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-082-Q1-N6-B2

<400> 7965

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 caaaacaaat agaaacatct accagtgtca aatctcggca taagccaacc gtgcttcaca 120
 caaacaatcc ctactgtcta tccgtgtaga tgtccggaaa aacaaaaaag aacagtagaa 180
 ttctcctcca ggaactgccc actacaggct caatgatatg ataggagggtc acagccatca 240
 cccggccagt tgccaggccc atgttttcgt tgactgtgtn gatgaatagc ntctaatact 300
 aattgatnat cggttgaact tggaatcgtc tgcagcggac gcgtgggt 348

<210> 7966

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-082-Q1-N6-B3

<400> 7966

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tcgtcttact gcattattac atatatagat agagagggat ggatagagga gatttcccaa 120
atatcatgaa tcagtagtag ggcggaatgg cagcggagac gccacagggg ttggtgcggt 180
agctgggcag ctggtactgg tactggtaga gtccacccat ggcgggcatg ttctgcgcca 240
tcacatggc catgggggtg agaccctggg ctgccagcag ctgctgctgc tgctgcatca 300
gagctggctc gtacaggctg ctgctggcgg cagcggcacg ctc 343

<210> 7967

<211> 543

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-082-Q1-N6-B5

<400> 7967

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tgaactataa ctcataagaa atctaaaaga gggcaccacc aatgatgggt tgttggtaga 120
acactgctgg gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
gggtgccagc gttaggcgca acgtgctggt agaacggcaa caactgtggt tgtgtcaaga 240
aggtagcagg gctcacacca gctagctggc tgaatggtag tagttgttgc tgctgtaaatt 300
aagcaggaga gttcaatgct gctagttggt tgaatggaag aaattgctgg gggtaggcag 360
caggtagctg gctgaatggt agttgttgtt gttgcaaata agaagcagag ttcaatgaac 420
ctagttgggt gaatggaaga aactgctgtt gctgagagta ggcagcaagg tttgctagca 480
caagttgttg tagttgttgt gccctgatgt tttgtgcaa taaatgcacc aaaggtaact 540
gtt 543

<210> 7968
<211> 533
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-082-Q1-N6-C3

<400> 7968

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tattgaatta caactaataa gcaatctaaa agaggcacca ccaatgatgt gttgttggtta 120
ggaggctgct gggtttgtca aagcaagttg gacaaagggc aacaattggt gtagttgttaa 180
gaggggttgcg gggttagccg caaactgctg gtagaaagggc agcaactggt gctgtgtcaa 240
gaaggaagca cggcttgcgt cagctagctg gctaaatggg agtaatatat gctgtgtcaa 300
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gtaggcagta gctagctggc tgaatggtaa tagttgttgc tgcaaataag cagcagggtt 420
cagtgtagat agttgggtga atggaagaaa ttgttgttgc tgatagtagg gagaaagggt 480
tgccagagct acttgggtga tcacaggtag cacgagttgc tgcagctgct gtg 533

<210> 7969
<211> 504
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-082-Q1-N6-D10

<400> 7969

aagaatctag aaatgtactt tcttatttct gggaagccac aaacatcaga caaaaaactt 60
tattattgaa ctataactca taagaaatct aaaagagggc accaccaatg atgggttggt 120
ggtagaatgc tggtgggttt gtcaaagcaa gttggttgaa tggcagcaat tgttgctagt 180
gtaagagggt gccagcgta ggccagcgt gctggtagaa cggcaacaat tgtgggttggt 240
tcaagaagggt agcagggtc acaccagcta gctggctgaa tggtagtagt tgttgctgct 300
gtaaataagc aggagagttc aaagctgtca gttggttgaa tggaagaaat tgctgggggt 360
aggcagcaga tagctggctg aatggtagtt gttgttggtg caaataagaa gcagagttca 420
atgcagctag ttgggttgaat ggaagaaact gttgttgctg agagtaggca gcaagggttg 480
ctagcacaag ttgttgtagt tggt 504

<210> 7970
 <211> 503
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-082-Q1-N6-D11

<400> 7970

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 taggaacaca tgccgcttga gggcaccatt tgcagtcac tcatatgtaa tctaaaagag 120
 gcacctccaa cgatgggttg ctgccacaac aaggcagggt tcatcaaaga gaactgggtg 180
 tatggcagca attgttgctg ctgtnggaag gcagcgacca atgggttagc caccgcttgt 240
 ggattaagta actgttgtcg ctgttgtnng tacgcagcag agttcgacac agtcagttgg 300
 ttgaatggaa gcagctgttg caagtaggca gcagggtttg ccacagctag ctgagtcaga 360
 gctggtacaa tctgttgcag caactgttgt tgcaggtatg taggtgcatt aaccacagcg 420
 agagggctag atgaaatcag ttgttgctgt tgttggtagg cgggagggtt caccatggct 480
 tgttgactga gcgctggttg aaa 503

<210> 7971
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-082-Q1-N6-D2

<400> 7971

 aaaacccaaa aaattttttg gttttttttg gggaaaccaa ccccgtttgg ggggcccctt 60
 tttggggccc cttttttttt tttttaaaaa gggggccccc ccacgggggg ggggggcccc 120
 ccaagggggg gggtttttaa aaaaaactgg tgttttgga caaatttttt tttttttggg 180
 gagggccccc cccctgggtt tcccccccg ggggggttaa aaaacgggg gcccttttgg 240
 ggggcccccc caatttttcc ccccaatagt ttgttttatt gaaaaccttt tttcaaggg 300
 ggcccagggt tttccccct ttggtttttt 330

<210> 7972

<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-082-Q1-N6-E11

<400> 7972

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aactataact cataagcaat ctaaaagagg caccaccaat gatgggttgt tggtagaaca 120
ctgttgggtt tgtcaaagca agttgggtga atggcagcaa ttgttgagcagtg tgtaagaggg 180
tgccagcgtt aggcataagc tgcaggtaga acggcaacaa ctgttggtgt gtcaagaagg 240
cagcagggct cacatcagct agctggctga atggtagtag ttgttgctgc tgtaaataag 300
cagcagagtt caatgctgct agttgggtga atggaagaaa ttgctggggg taggcagcaa 360
ctagctggct gaatggtaat tggtgttgca aataagcagc agagttcaat gcagccagtt 420
ggttgaatgg a 431

<210> 7973
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-082-Q1-N6-E7

<400> 7973

ttttttttt tgcagcttac tgaagataac caactaatcc attgtgtcgg cgcaatacat 60
ctgagttttg aaacatgaat tatttcaaac tagctgagct agcctcggca cttcatctta 120
cagggaacc aacaacaaat atgcaaataa cgaagccaac aaaaaccac cccaccgtaa 180
aaaaaagacc cttttaacaa tctggaccc 209

<210> 7974
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-082-Q1-N6-F11

<400> 7974

tctaaacgga cgcccttttt tttttttttt ctttnnnttt tnnnnnnnnn annnttttnc 60

gagataaatc tcaatcaata tattgattat ttctaggaaa cacatgtcgg tttgagggca 120
ccattgtcga gtacatctca tttgtaatct aaaaaaggca cctccaacga tgggttgctg 180
caaggcaggg ttcatcaaag agaactgggt gtttggcagc aattgttggt gctgctgcag 240
gaaggtagcg accaatgggt tagccactgc caatggatta agtaactggt gtcgctgttg 300
taggtcccca gcagagtttg acacagccag ttggttgaat ggaagcaact gttgtaagta 360
ggcagcaggg tttgccacat ctagctgag 389

<210> 7975

<211> 125

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-082-Q1-N6-F3

<400> 7975

cacataagaa tctagaaatg tactttctta tttctgggac gccacaaaca tcatccaaaa 60
aacttcatta ttgaactata actcataagc aatctaaaag aggaccacc aatgatgggt 120
tgttg 125

<210> 7976

<211> 533

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-082-Q1-N6-F5

<400> 7976

aagaactaaa aatgtacttt cttatttctg ggacgccaca aacatcatcc aaaaaacttc 60
attattgaac tataactcat aagcaatcta aaagaggcac caccaatgat gggttgttgg 120
tagaactctg ttgggtttgt caaagcaagt tgggtgaatg gcagcaattg ttgcagttgt 180
aagaggggtgc cagcgttagg catagcgtgc aggtagaacg gcaacaactg ttgttggtgc 240
aagaaggcag cagggtcac atcagctagc tggctgaatg gtagtagttg ttgctgctgt 300
aaataagcag cagagttcaa tgctgctagt tgggtgaatg gaagaaattg ctgggggtag 360
gcagcaacta gctggctgaa tggtaattgt tgttgcaa atgcagcaga gttcaatgca 420
gccagttggt tgaatggaag aaactgatgt tgctgagagt atgcagcaag gtttgctagc 480

acaagttggt gtagttgttg tgccctgatg ttttgtgcca ccaaattggac caa 533

<210> 7977

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-082-Q1-N6-G11

<400> 7977

ggggaaaggg accttttttt tggggggggg cccccccct aaccaaaaaa atttttttgg 60

ggttcccccc aaaaaggcac taaaaaaggg ggccccccaa aaattttttt gggggggggg 120

ggcccctggg ttttaaaaaa agggggggaa aaggggaaaa aattgggggt ttttaaaagg 180

gggggggggg ttcccccaa accgggggaa aaaaggga aaactgggtt ggtaaaaaaa 240

aaagaaaccg gtttgttcaa ctctgggggc aaaaggga aaatttttgg gggggaaaaa 300

aaacgggggg gttaaggggc ccaaattgtt aaaaaaaaaa aatttttttt ttt 353

<210> 7978

<211> 360

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-082-Q1-N6-H7

<400> 7978

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aactattact cataagcaat ctaaaatggg caccaccaat gatgggttgt tgggggaaca 120

ctgttgggtt tgtcaaagcc cgtcgggtga atggctgcaa ttgttgccgg tgtagaggg 180

tgccagcggg tggcatagcg tgcagggtga acggcaacaa ctgttggtgt gtcaagaagg 240

cagccgggct cacataagct agctggctga atggaagtag ttgaaaaagc tgtncttggg 300

cccaaagtt caatgctgct agttgggtgc atggcagaaa ttgctggggg ttggccgcaa 360

<210> 7979

<211> 538

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-083-Q1-N6-A10

<400> 7979

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gtgtgctttg tttgtattta gtacggtagt ttgaccaggt ccgtctaaca gaacaggact 120
gctacatctc attttttgaa gttgctacta gtttgctaca tccttgagct gacaatacaa 180
gatggtaggt agatacacgt cccaaactca attcagtaca tcccaagatg gtagatacac 240
agagcatccc aaagtacatt acattatcta aataagataa tgacgtctgc tcgaggggacc 300
aaccagcatg agtcactggg cacttataca ggtcgggtcaa tcttgagatt cctccaaggc 360
ttccttctcc ctctgctgtt ccaatgcaat ctgagccaac gctttctgcg tgcgcctttc 420
cagtttatca attctcttct gcacatcacg tttcagatcc caatttggat tctttgggtgc 480
tatgtttcca aaaaggttct ccacttcctt tggctctgca gtttcggcac taattggg 538

<210> 7980
<211> 552
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-083-Q1-N6-B2

<400> 7980

gtgataatga agtcgctcta tgaatattca actgcagtgt tctctgacaa ataatagcaa 60
ctagtctgtc tgcgatgtct aaatcagcag gtgtgctctt ttacacgcaa cagtgaagttt 120
gaactttgaa tacactcctt gtgactgact ctgaggggaa ggccttgctt cctcataaac 180
caccacctct ttatgcatca atccaagact gctgtccaaa cgccatgtga agccctgcaa 240
ctgcaataac caagaacatg gtccagtggg ccactgagca gttgaaattt tgtgcaactt 300
tacttggcat ggcttttttt tttccttcac ttgtattcaa gcagccatgt ctggcacagc 360
aagctttctc aacaagaagc atcagcctac cacgttaaac aggcgattaa cagaagaaca 420
caacatcgcc atcagtcaga accacacgac ctgggcaaca gaacatcgca ttgcactctg 480
gaagacaggt gaacgagcag gcatttttat tcgaagcaaa aggtgcagcc aattcccacc 540
atactaggaa cc 552

<210> 7981
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-083-Q1-N6-B5

<400> 7981

cgtaaagacc aacatgaact ttccattgaa cttagtggag catctactgc aatatcaaag 60
aacaccatac aattctgacc ctccactttga ttaaggcaac taaacaatgg tttaaagtga 120
caggatccgc aatacttggt gtaatcacia ctatacagtc tgcaagttta aacttcaatt 180
gaaaacaaat attgttcttt tgtaaagtgt aaaactaatg acgacctata tcgctaaatg 240
tcttgtccaa aaacatgttg tcgatatttg cagtcagacc atggatggct tcattctttt 300
ggatcagcag cctcttgaag catttacgca gcaaggagac ccaatttatg tccatatata 360
taatcgctct cctcctccgc gtgggttagt gatttcgtcg atctcaagat ccgtcggctc 420
attcttccat agagaggatt taaactataa t 451

<210> 7982
<211> 513
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-083-Q1-N6-B6

<400> 7982

agcacataag atctagaaat gtctttctta tttctgggaa gccacaaact cagataaaaa 60
actttattat tgaactataa ctcataagaa atctaaaggg ggcaccacca atgatggggt 120
gttggttaga cactgctggg ttgtcaaag caagttgggt gaatggcagc aattgttgca 180
gttgtaagag ggtgccagcg ttaggcgcaa cgtgctggta gaacggcaac aactgtgggt 240
gtgtcaagaa ggtagcaggg ctcacaccag ctagctggct gaatggtagt agttgttgct 300
gctgtaaata agcaggagag ttcaatgctg ctagttgggt gaatggaaga aattgctggg 360
ggtaggcagc aggtagctgg ctgaatggta gttgttggtt ttgcaaataa gaagcagagt 420
tcaatgaacc tagttgggtt aatggaagaa actgctgttg cttaaagttg gcagcaaggt 480
ttgctagcac aagttgttgc agttgctgtg ccc 513

<210> 7983
<211> 513
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-083-Q1-N6-C12

<400> 7983

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attattactc aatcatcgcc gctaaatgac tcaactagct agctagccag cggctatact 120
acagcacata gtttcttcag tgggggacac cgccggcagc agcgtagggg catggagtcg 180
gctgctgcag gccgcacatc gccgtcagtt gctgcgctat ctgcgccgcc aacagccccg 240
cgacctggcc gctttgcggc tgctgctgca ggatggactg gaggaccaag ccgaagatcg 300
cctggtaccg gtgctgcggc tccacctgcc tgagctgctg gcaacactgc tgccgcaacg 360
actggcactg aggcgagcag tagggcgctc cgcgcgggct gcaactgatgc ctcaaaaact 420
cgacgcactg gccagggatc ggggtgctgc caacgccgca ggttccttgc agctggcacg 480
ggcttggatg cggctgttgg cacgggcatg ggt 513

<210> 7984
<211> 506
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-083-Q1-N6-C2

<400> 7984

aagaagcatg aaacgggaat ttcagttctc atagcattat catgaatctc agaacataac 60
aggtgaaaca cgaatcaagc agaggcgcca tgggggtcac agatccacac ctaaaccgct 120
aaattaaact gcgagcgata catgataaac taagaccacc actcagatca ccaccatctt 180
attcagatcc aaaggaacgg acgcaggggg agtcgacgat gacggaggga gggcgggcca 240
acagaccaga tcagagagat ctaggagagc tgtccgcagt cagcgacctt gaccaccttg 300
gaggtggagc cgttgcgggt gccaccttc tcgatggcct tgacgacgct catgccctcg 360
acgacctggc cgaagacgac gtgcttgccg tcgagccaag gggtcgcgac ggtgcagatg 420
aagaactggg agccgttggg gttggggccc gcgttggcca tggagagcac accggggggc 480
gtgtgcttgc gcacgaactt ctcgctc 506

<210> 7985
<211> 550
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-083-Q1-N6-C4

<400> 7985

aagaatctag aaatgtactt tcttatttct gggaagccac aaacatcaga caaaaaactt 60
tattattgaa ctataactca taagaaatct aaaagagggc accaccaatg atgggttggt 120
ggtagaacgc tgctgggttt gtcaaagcaa gttggttgaa tggcagcaat tgttgcaagt 180
gtaagagggt gccagcgta ggcgcagcgt gctggttaga cggcaacaac tgtggttgta 240
tcaagaaggc agcagggctc acaccagcta gctggctgaa tggtagtagt tgttgctgct 300
gtaaataagc aggagagttc aatgctgcca gttggttgaa tggaagaaat tgctgggggt 360
aggcagcagg tagctggctg aatggtagtt gttggttggt caaataagaa gcagagttca 420
atgcagctag ttggttgaat ggaagaaact gctggtgctg agagtaggca gcaaggtttg 480
ctagcacaag ttgttgtagt tgttggtgcc tgatgttttg tgccaaataa agcaccaaag 540
gtaactgatg 550

<210> 7986
<211> 534
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-083-Q1-N6-C6

<400> 7986

gatcacaan aaaacaagta cataatataa caagttcatc ataaagttca agagccacaa 60
gtccacaagt cccaagtttg caaggtcaca aaacattatg gagcaagtac aataagaaac 120
attcatagca ttcattgtac attatcatca tctagatctt catcaacaag cttacaacga 180
tgcctcaggt ccatcatcat tatcatcatc taggtcttca tctcacaatg aaggatttct 240
tgcaagagcc tcaagttcat ccatttcata aaccatatta ggaatagcaa cactcttagc 300
cttggaaact tttcttgctc tagctatcca atctttggtg tagaccatct tctttgtgtg 360

ctttccacca tgctaatatg tcaaaagtgt gttgattact tttaaccaacc tttagtattg 420
gatctgccaa atatTTTTct tgtagtactc ctcacagcct cataggtcga gttcttggtg 480
gcgaagggcg gcgctgcttg aagtggccct gcttgaagtg gcggcacggc cctg 534

<210> 7987
<211> 530
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-083-Q1-N6-E11

<400> 7987

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gaaggttatc caagtgaaga aggccaggac atcttccaaa gataagacaa gtacgaaaag 120
aaaacctcag tagttttgtt tgtggccagg gagaaggatc taccgaggaa ttgctcgca 180
ttgcccga gcatcaaaaa gcggtttctc aatgtctctc tactgtacca ctgtgtctat 240
tctaccattc cacgctgttt gaagatttca aacatggtag aaccaatctt cgctggtgac 300
tcgacaacgg taacaccagc ctctctgagt gccttgattt tgtcctgggc agtacccttt 360
cctcctgcca cgatagctcc agcatgaccc atgcgacggc ctgggggtgc cgtaagtcca 420
gcaatgaatg caacaacagg cttttgtgtt ttgctttcct ggatgaacgt tgcagcatcc 480
tcctcagccg tacctccaat ttcaccgatg agaacaatgc cttctgtctg 530

<210> 7988
<211> 487
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-083-Q1-N6-E2

<400> 7988

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actgctgggt ttgtcaaagc aagttgggtg aatggcagca attgttgagc ttgtaagagg 180
gtgccagcgt taggcgcaac gtgctggtag aacggcaaca actgtgggtg tgtcaagaag 240
gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300

gcaggagagt tcaatgctgc tagttggttg aatggaagaa attgctgggg gtaggcagca 360
 cgtagctggc tgaatggtag ttgttggttg tgcaaattag aagcagagtt caatgaacct 420
 agttggttga atggaagaaa ctgctgttgc cgacaatagg caccaggggtt tgctaccaca 480
 agttgtt 487

<210> 7989
 <211> 68
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-083-Q1-N6-E7

<400> 7989

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 ctgctcc 68

<210> 7990
 <211> 516
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-083-Q1-N6-E9

<400> 7990

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 attattgaac tataactcat aagaaactaa agggggcacc accaatgatg ggttggttgg 120
 agaatgctgc tgggtttgtc aaagcaagtt ggttgaatgg cagcaattgt tgcagttgta 180
 agaggggtgcc agcgttaggc gcagcgtgct ggtagaacgg caacaactgt ggttgtgtca 240
 agaaggtagc agggctcaca ccagctagct ggctgaatgg tagtagttgt tgctgctgta 300
 aataagcagg agagttcaat gctgtcagtt ggttgaatgg aagaaattgc tgggggtagg 360
 cagcagatag ctggctgaat ggtagttgtt gttgttgcaa ataagaagca gagttcaatg 420
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 gcacaagttg ttgtagttgt tgtgccctga tgtttt 516

<210> 7991
 <211> 523

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-083-Q1-N6-F1

<400> 7991

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tggttgagttt gtcaaagcaa gttgggttgaa tggcagcaat tggtgcagtt gtaagagggg 180
gccagcggtta ggcatagcgt gcaggtagaa cggcaacaac tggtgtgtg tcaagaaggc 240
agcagggctc acatcagcta gctggctgaa tggtagtagt tggtgctgct gtaaataagc 300
agcagagttc aatgctgcta gttgggttgaa tgggaagaaat tgctgggggt aggcagcaac 360
tagctggctg aatggtaatt gttgttgcaa ataagcagca gagttcaatg cagccagttg 420
gttgaatgga agaaactgat gttgctgaga gtatgcaaca aggttttgct agcacaagtt 480
gttgtagttg ttgtgcctg attttttggtg cccccaatg gac 523

<210> 7992
<211> 528
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-083-Q1-N6-F10

<400> 7992

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caaagtaaaa tgactctttc tccagatgac atccgatgtg gtttgacgac gccaccaact 120
gaatcattac attgggaacg ccgataagca tgttcgcctc aattattcgg ttgcctccgc 180
tcacagtcca ttcaagcatc aagcagccct acaaactcc tttacttaca gggtcctaac 240
cttttagcta cagtacagac tgcggcagaa cttgtagggg attaaggatc gacttggggg 300
ccagcaactt cttgatggag gccattagtt gtactgcttc aggtgattta ctgtagtgaa 360
tcttctcagc tttcattagc cccaaacat gctctgcgct gatgcttcct ctttgtgctg 420
atgtccactc atagacgaat ggttcaattt gtgcgagaat attgtcgtca tatttgcttg 480
atacaatggt caaatgcaga ttcccatctc caagggtggcc atagccca 528

<210> 7993
<211> 512
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-083-Q1-N6-F8

<400> 7993

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aactataact cataagaaat ctaaaggggg caccaccaat gatgggttgt tggtagaacg 120
ctgctgggtt tgtcaaagca agttgggttga atggcagcaa ttgttgcagt tgtaagaggg 180
tgccagcggt aggcgcagcg tgctggtaga acggcaacaa ctgtgggttgt atcaagaagg 240
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caggagagtt caatgctgcc agttgggttga atggaagaaa ttgctggggg taggcagcag 360
gtagctggct gaatggtagt tgttgttgtt gcaaataaga agcagagttc aatgcagcta 420
gttggttgaa tggaagaaac tgctgttgct gagagtaggc agcaaggttt gctagcacia 480
gttgtttagt ttgttgtgcc ctgatgtttt gt 512

<210> 7994
<211> 549
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-083-Q1-N6-G3

<400> 7994

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tagaactctg ctaggtttgt caaagcaagt tggttgaatg gcagcaattg ttgcagttgt 180
aagaggggtg cagcgtagg cgcagcgtgc tggtagaacg gcaacaactg tggttgtgtc 240
aagaaggtag cagggctcac accagctagc tggctgaatg gtagtagttg ttgctgctgt 300
aaataagcag gagagttcaa tgctgccagt tggttgaatg gaagaaattg ttgggggtag 360
gcaacaggta gctggctgaa tggtagttgt tggtgttgca aataagaagc agagttcaat 420
gcagctagtt ggttgaatgg aagaaactgc tggtgctgag agtaggcagc aaggtttgct 480
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aactgctgt

549

<210> 7995

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-083-Q1-N6-H1

<400> 7995

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aactataact cataagaaat ctaaaagagg gcaccaccaa tgatggggtg ttggtagaac 120

gctgctgggt ttgtcaaagc aagttggttg aatggcagca attgttgagc ttgtaagagg 180

gtgccagcgt taggcgcagc gtgctggtag aacggcaaca actgtgggtg tatcaagaag 240

gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300

gcaggagagt tcaatgctgc cagttggttg aatggaagaa attgctgggg gtaggcagca 360

ggtagctggc tgaatggtag ttgttggttg tgccaataag aagcagagtt caatgcagct 420

agttggttga atggaagaaa ctgctgttgc tgagagtagg ca 462

<210> 7996

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-083-Q1-N6-H3

<400> 7996

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gataatgtgt gtcgtcttac tgcattatta catatataga tagagagaga tggatagagg 120

agatttccca aatatcatga atcagtagta gggcggaatg gcagcggaga cgccacaggg 180

gttgggtcgg tagctgggca gctggtagtg gtagagtcca cccatggcgg gcatgttctg 240

cgccatcatc atggccatgg ggttgagacc ctgggctgcc agcagctgct gctgctgctg 300

catcagagct ggctcgtaca ggctgctgct ggcggcagcg gcacgctcaa gctgcataat 360

catttgcagc tgctgcgcga cggactgcac gttcatcat 399

<210> 7997
<211> 586
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-083-Q1-N6-H8

<400> 7997

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ttctctcccc cccgctctcc ccccccttct gggggggggg gccccctctc cccccgggcc 180
ctctcccccc cttccccccc cctacctccc cccttcttgc tccccgcctc cctctcccc 240
ccccccctct cccgcccccc tccccccccc tccccctcc cccccccccc ctcttcccc 300
ctcccccttg tccccctttg cccgttcccc cctctccctc ctccctttcc cccctcttct 360
ccccctctc ccccccttcc cccccctcc cccgctgtc cctcttcccc cgcggtcccc 420
ctccccctc ctgcgcgct cccgctcc cctccccccc ttcttcccc cccggtcttt 480
ttctctctcc cctcttttcc tctctcccc tcttccctcc cccccccccc ctccccctct 540
ccccnccct cccccccccc cttccccct cccccccccc ccccc 586

<210> 7998
<211> 536
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-083-Q1-N6-H9

<400> 7998

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttccg gcccccccg gggaaccaga tccgtttgcc 120
caccgcggg gccaacatac ccaggtcta aaaaaatccc aaaagggcg gggccccaat 180
ttaagatttc aatcaacaaa acacaaaaag ggaccaacc gggggaaaaa aacatggcca 240
aagtcgggtc aaaaaaggc cctccacaa atcaagggcc aaggaaacac gccgcccccc 300
ccaaaggctt cccaacaacc ggtttaaaca aaaacagtag gccattgcc caaccccccg 360
tcaacccgga ttttctaaac ccggtagttg ggggtgggca accccccccac atcatcccca 420

aaaagcttcc cccaaccccc agggccaaac ggggaaaaac aaaaacaacc cccaatgggg 480
 ggataacgga aaggggcccc aaaaaaaccc cggggcgcca aaatcggcgg gatacc 536

<210> 7999
 <211> 626
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-A1

<400> 7999

attatttaga ccaactagca acataggaaa gcacaatagt gtaccaacaa tggcagccaa 60
 aatttttgcc tccttatgct ccttggtatt tctgcaagtg ctgctacggc gaccattttc 120
 ccgcaatgct cacaagctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg 180
 tcttcggtat gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcgcagct 240
 ggcattctac ctttatcacc cttgttcctc caacaatcat cagccctatt acagcagtta 300
 cctttggtgc atttattggc aaaaaacatc agggcacaac aactacaaca acttgtgcta 360
 gcaaaccttg ctgcctactc tcagcaacag cagttttctc cattcaacca actagctgca 420
 ttgaactctg cttcttattt gcaacaacaa caactaccat tcagccagct acctgttgcc 480
 tcccccaac aatttcttcc attcaaccaa ctggcagcat tgaactctcc tgcttattta 540
 cagcagcaac aactactacc attcagccag ctagctggtg tgagccctgc taccttcttg 600
 acacaaccac agttgttgcc gttcta 626

<210> 8000
 <211> 655
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-084-Q1-K6-A10

<400> 8000

nttttgagct tcanaaacac accagcgaag cacattagca acaacctaac aacaatggct 60
 accaagatat tatccctcct tgcgcttctt gcgctttttg cgagcgcgaac aaatgcgttc 120
 attattccac aatgctcact tgctccaagt tccattatta cacagttcct cccaccagtt 180
 acttcaatgg gcttcgaaca cccagctgtg caagcctata ggctacaaca agcaattgcg 240

gcgagcgtct tacaacaacc aatttcccag ttgcaacaac aatccttggc acatctaaca 300
 atacaaacca tcgcaacgca acagcaacaa caattcctac cagcactgag ccacctagcc 360
 atggtgaacc ctgccgccta cttgcaacag cagttgcttg catcaaacc acttgctctg 420
 gcaaacgtag ttgcaaacca gccacaacaa cagctgcaac agtttctgcc agcgctcagt 480
 caactagcca tgggtgaacc tgccgcctac ctacaacagc aacaactgct ttcacttagc 540
 ccgctcgctg tggccaatgc acctacatac ctgcaacaac aattgttgca acagattgta 600
 ccagctctga ctcagctagt tgtggcaaac cctgctgctt acttgcaaca gctgc 655

<210> 8001

<211> 642

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-A11

<400> 8001

gccaaacttg ttgaggtcac caaangttga gcgagttgac acaaaagtaa gcgagagtgt 60
 tgaattggag aggaaggtgc aggaccttga gcagaagctg cagctagctt attccaagtg 120
 tgacgaacag gcagtggata ctgtggagtc gagatcccg gaattcagcc tggattcatc 180
 aacgacttca ggcaagcagc aagacaaaac tcaggctgtc tcaccaaacc caaccctgca 240
 aggagtgcaa gaaccttccg gcatcatggc cttcaagttc atcctgggag ttgccctgct 300
 gtctgtccta atcggcgtgt ttcttgggaa gcggtactag cgctcaggtc gtgctgaaag 360
 ggctcagcca gcggcaagtt tgaaaggatt ggtggccttg atggtaatgg ttcgacgact 420
 ttctgggaga agggctcatc ggcgtgtttc tttttgccgt aattttcact tttcgggtaa 480
 gggggggcca aggaatttga tttttgatca ttcctaccct ttcattgcaaa tggccaactg 540
 catgcgactg gttttgccta cagcaagttt ccgtatacat ttcttgtccg taaagatcac 600
 aagtccagcg acgaaacatg aagcatttgc tactatatgt ct 642

<210> 8002

<211> 523

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-K6-A2

<400> 8002

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tggctgattc agctggcacc gatgggggtg atttcatgac tgaattggag gagctatgcc 120
gggatgatgg cgatgccccg atgtcgacta tttcttgaca tggagcttac tatagatcag 180
ttaggcagtg acatgttctt taccagacta gatgtaaatt gttgttacta aatgggtctct 240
actcaccgtt gaacaccata atataatgat ataacagcta atacatggac ttctacagat 300
taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaanaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaggacnn acgctgaag gcaacaggct atctctccta tgggtgccacc taaatacaat 420
ttatatgggc gccactttac aaccataaat tcggcgaatt tcttggcggt ccccaactga 480
ataacctggg aacacatcca attaaccccc tttggcgaaa aac 523

<210> 8003
<211> 618
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-K6-A3

<400> 8003

gngnaccaat agcaacatag naagcacaat agtgtaccaa caatggcagc caaaaatttt 60
gctccttat gctccttggc ctttctgcaa gtgctgtac ggcgaccatt ttcccgcaat 120
gctcgcaagc tcttatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg 180
tatgtgaaaa cccaattctt caaccctaca ggatccaaca ggcaatcaca gctggcatct 240
tacctttatc acccttgttc ctccaacaat catcagccct attacatcag ttacctttgg 300
tgcatttatt ggcacaaaac atcagggcac aacaactaca acaacttgtg ctagcaaacc 360
ttgctgcta ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact 420
ctgcttctta tttgcaacaa caacaactac cattcagcca gctacctgct gcctaccccc 480
agcaatttct tcattcaac caactggcag cattgaactc tcttgcttat ttacagcagc 540
aacaactact accattcagc cagctagctg gtgtgagccc tgctaccttc ttgatacaac 600

cacagttggt gccgttct

618

<210> 8004

<211> 585

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-A4

<400> 8004

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tccttgggtct ttctgcaagt gctgctacgg cgaccatttt cccgcaatgc tgcgaagctc 120

ctatagcttc ctttcttccc ccgtacctct caccagcggg gtcttcggta tgtgaaaacc 180

caattcttca accctacagg atccaacagg caatcgcagc tggcatctta cttttatcac 240

ccttggttct ccaacaatca tcagccctat tacaacagtt acctttggtg catttattgg 300

cacaaaacat cagggcacaa caactacaac aacttgtgct agcaaaccct gctgtctact 360

ctcagcaaca gcagtttctt ccattcaacc aactagggtc attgaactct gtttcttatt 420

tgaacaaca acaactacca ttcagccagc tacctgctgc ctacccccag caatttctta 480

cattcaacca actagcagca ttgaactctc ctgcttattt acagcagcaa caactactac 540

cattcagcca gctagctggt gtgagccctg ctacctgggt gacac 585

<210> 8005

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-A5

<400> 8005

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cgcggggctg ttggcggcgc agatagcgca gcaactgacg gcgatgtgcg gcttgcagca 120

gccgactcca tgcccctacg ctgctgccgg cgggtgtccc cactgaagaa actatgtgct 180

gtagtatagc cgctggctag ctagctagtt gagtcattta gcggcgatga ttgagtaata 240

atgtgtcacg catcaccatg ggtggcagtg tcagtgtgag caatgacctg aatgaacaat 300

tgaaatgaat ttt 313

<210> 8006

<211> 632

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-A6

<400> 8006

ggccatgtcg gcgcagttca caagaataac cttcagcaac ctgtttgtcc gtcgggctgg 60
cccaggcagc acggagctga ccgtggaggg aaggccatcc gaccagctgg gcaggagaaa 120
cctcactgac agccccgtat ttgacggccg tggccctgac gccagcctcg tggctcgcgt 180
acagggagtc gctaccaga tgggcgacgt gcgccagttg tacaccgtcg tgttccagga 240
gaggccgctc aagggtcca cgctcgtcac cgaaggcgcg atgacagaag ggtcagacga 300
gtgggcatc tacggtggaa ctggagtgtt cgcatggcg agaggcgta taaggagaac 360
gtttcttgcc gacacgagcg gcgggaactc cgacgagctt gccgtggagg ttctctgccc 420
ggtgttcgc ccggcggcgt ttggctcatc gtcgtcacag ccagcagcaa aggacatcag 480
ctccaccgtc gtcgtcacca aggtcggagt gtggggtgga gaggagggt cggcgcagga 540
catcgcgacg acggagccgc cgaggcgtct gcagagcctg accgtccgcg ccggcgttgc 600
cgtggaactc atcgagttca cctacagtac cg 632

<210> 8007

<211> 309

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-A7

<400> 8007

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catgccagac aatggtgcag aaaatggcac cgaggaggga ggctctagag ttaaatatgc 120
tgtgatggat gttcccatca ccttaccttc gttnгааacc atgcttttgn nacaagccta 180
accccaaaca aggcattggg atgctgtcat ggagcagcga cagccactat ttcttcacca 240
ggaatgacaa catgccaact gttctttgga tatgggatat attgccgcct ttgagcttgc 300

ccgcttgtg

309

<210> 8008

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-B1

<400> 8008

gttggatgca agcaactgct gttgcaagta ggcgacaggg ttcaccacag ctcagtcaac 60
tagccatggt gaaccctgcc gcctacctac aacagcaaca actgatttca tctagccctc 120
tcgctgtggt taatggacct acatacctgc aacaacagtt gctgcaacag attgtaccag 180
ctctgactca gctagctgtg gcaaaccctg ctgcctactt gcaacagctg cttccattca 240
accaactgac tgtgtcgaac tctgctgcgt acctacaaca gcgacaacag ttacttaatc 300
cactagcggg ggctaacca ttggtcgctg ccttcttaca gcagcaacaa ttgctgccat 360
acaaccagtt ctctttgatg aaccctgcct tgttgtggca gcaaccctc gttggagggtg 420
ccttctgtta gattacatat gagatgtact cgataatggt gccct 465

<210> 8009

<211> 634

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-B10

<400> 8009

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tcattattcc acagtgtca cttgtccta gtgccagtat tccacagttc ctcccaccag 180
ttacttcaat gggcttcgaa catccagccg tgcaagccta caggctacaa ctagcgcttg 240
cggcgagcgc cttacaacaa ccaattgcc aattgcaaca acaatccttg gcacatctaa 300
ccctacaaac cattgcaacg caacaacaac aacaacagtt tctgccatca ctgagccacc 360
tagccgtggt gaaccctgtc acctacttgc aacagcagct gcttgcattc aaccacttg 420
ctctggcgaa cgtagctgca taccagcaac aacaacagct gcaacagttt atgccagtgc 480

tcagtcaact agccatggtg aaccctgccg tctacctaca actactttca tctagcccgc 540
 tcgcggtggg caatgcacct acgtacctac aacaacagtt gctgcaacaa attgtaccag 600
 ctctgactca gctagctgtg gcaaacactg ctgc 634

<210> 8010

<211> 653

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-B11

<400> 8010

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 ccctttctcc ccctacatt ccatcaatga tagcttcagt atgtgaaaac ccagctcttc 180
 aaccctatag gtcccaacaa gcaatcgag caagcaacat acctttatca cccttgcttc 240
 aacaatcgcc agccctatct ttggtgcagt cattggtaca aaccatcaag gcacagcagc 300
 tgcagcaact cgtgctacct gtgatcaacc aagtagctct ggcaaacctt tctcctact 360
 atcagcaaca acaatttctt ccattcaacc aactatctac actgaacctt gctgcttatt 420
 tgcagcaaca actattacca ttcagccagc tagctactgc ctactctcat caacaacaac 480
 ttcttccatt taaccaattg gccgcactga acctcgctgc ttatttgcag cagcaaatat 540
 tactaccatt tagccagcta gctgcagcaa gccgtgcttc cttcttgaca cagcaacagt 600
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<210> 8011

<211> 616

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-B2

<400> 8011

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 tccttatgct ccttggtctt tctgcaagtg ctgctaccga naccattttc ccacaatgct 120

cacaagctcc tatagcttcc tttcttcccc catacctctc accagcgggtg tcttcagtat 180
gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcgagca ggcattctac 240
ctttatcacc ctgttctctc caacaaccgt cagccctatt acagcagtta cctttgggtgc 300
atgtgttggc acaaaacatc aaggcacaac aactacaaca acttgtgcta ggaaaccttg 360
ctgcctactc tcagcaacag cagtttcttc cattcaacca actggctgca ttgaactctg 420
ctgcttattt gcaacaacaa ctaccattca gtcagctagc tgctgcctac cccagcaat 480
ttcttccatt caaccâactg gcagcattga actctgctgc ttatttacia cagcaacagc 540
taccaccatt cagccagcta gctgatgtga gccctgttgc cttcttgaca caacaacagt 600
tgttgccgtt ctacct 616

<210> 8012

<211> 613

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-B4

<400> 8012

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aagatgggtca tcgttctcgt cgtgtgcctg gctctgtcag ctgccagcgc ctctgcaatg 120
cagatgccct gccctgagc ggggctgcag ggcttgtacg gcgctggcgc cggcctgacg 180
acgatgatgg gcgccggcgg gctgtacccc tacgcggagt acctgaggca gccgcagtg 240
agcccgctgg cggcggcgc ctactacgcc ggggtgtggc agccgagcgc catgttccag 300
ccgctccggc aacagtgtg ccagcagcag atgaggatga tggacgtgca gtccgtcgcg 360
cagcagctgc agatgatgat gcagcttgag cgtgccgctg ccgccagcag cagcctgtac 420
gagccagctc tgatgcagca gcagcagcag ctgctggcag cccagggtct caaccccatg 480
gccatgatga tggcgagaa catgccggcc atgggtggac tctaccagta ccagctgcc 540
agctaccgca ccaaccctg tggcgtctcc gctgccattc cgcctacta ctgattcatg 600
atatttggga aat 613

<210> 8013

<211> 553

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-084-Q1-K6-B5

<400> 8013

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ggcaaacgta ctgcatacca acaacaacaa cagttgcaac agtttctacc agcgctcagt 60
caactagcca tgggtgaaccc tatcgcttac ctacaacagc aacaacttct ttcattctagc 120
ccgctcgcta tgggcaatgc acctacatac ctgcaacaac agttgttgca acaacagttg 180
ctgcaacaaa ttgtaccagc tcttactcag ctagctgtgg caaacctgc tgcctacttg 240
caacaactac ttccattcaa ccaactgact gtgtcgaaact ctgctgcgta cctaacaacag 300
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cagcaacaat tgctgccata caaccagttc tctttgatga accctgcctt gtcgtggcag 420
caaccatcg ttgggtgtgc catcttttag attacatatg agatgtactc gataatggtg 480
ccctcatagc ggcatgtgtt tcctaaaaat aatcaatata ttgattgaga tttatctcga 540
tataaaaaaa ana 553

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<210> 8014
 <211> 295
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-084-Q1-K6-B6

<400> 8014

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caacaattgc tgccattcaa ccaacttgct ttgacaaacc cagcagtggt ctaccaacaa 180
cccatcattg gtggtgcctt cttttagatt tcttatgagt tatagttcaa taataaagtt 240
ttttatctga tgtttgtggc ttcccagaaa taagaaagta catttctaga ttctt 295

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<210> 8015
 <211> 332
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-K6-B7

<400> 8015

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caatgggtat ctgcgtgac tcgatgcaca agcgccgagc caccggtgga aagcagaagg 120
cctggaggaa gaacgaaagt tgagcttggc cgccagccag ccaacaccaa gttgtcaagc 180
aataagacgg tgaggagggt ccgtgttcgg ggaggtaatg tgaaatggag ggctcttcgc 240
cttgatactg gtaactactc atgggggaag tgaagctgnt acccgcaaga cccgtatcct 300
cgacgtggtc tacaatgcat caaacattga gc 332

<210> 8016
<211> 358
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-K6-B8

<400> 8016

gggggggggg gggnnacaga gagaggggag agtgggagac ggtcgggtgc agaggcctnc 60
ctcctccaca ctctcagtcg tcttctcgtc ccagcgcttt cttggctcgc gaggaacct 120
cttcgtgtgt ttgcnnttgc atataactgt gtgggggggg gtggttgctc ggtgtgttgg 180
ccttggeect gcgcctcggc nggatcatcg cctagctgcn ggcaggcctc nctggtggcg 240
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<210> 8017
<211> 611
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-K6-B9

<400> 8017

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tgtcggcgaa gggcgggcgcg gtcgcgggca agaagaagg tcggtttcct tcacgatcga 120
 ctgcaccaag ccagtggagg acaagatcat ggaggtcgcc tcgctcgaga agttcctgca 180
 ggagcgcac c aaggtcgccg gcggcaaggc tggcaacctc ggcgactccg tcaccatctc 240
 tcgcgagaag accaagg tca ccgtcacctc tgacggaccc ttctccaaga ggtacctgaa 300
 gtacttgacc aagaagtact tgaagaagca caacgtgcgg gattggctac gcgtgggtgc 360
 tgccaacaag gaccgaaacg tctatgagct ccgtacttc aacattgctg agaacgaggg 420
 cgaggaagaa gattagattg cactacgctt atattttagt attgaactcg ttgcattttg 480
 atacctgtac ccgtagt ttc gcaaatgtcc catgttatgg tgtggtatgg ttaatttgaa 540
 gaatccttat gtactgaatc tctgcaaaaa gctatgttgt ggacagaagt gtaacgtgcc 600
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<210> 8018

<211> 601

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-C1

<400> 8018

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 tagcattaca taagatgatt agacttatca caatgggttt aggaggagag ggctatctta 180
 atttcatggg aaatgagttt ggacatcctg aatggataga tttccaaga ggtccgcaaa 240
 gacttccaag tggttaagttt attccaggga ataacaacag ttatgacaaa tgcgtcgaa 300
 gatttgacct gggatgatgca gactatctta ggtatcatgg tatgcaagag tttgatcagg 360
 caatgcaaca tcttgagcaa aaatatgaat tcatgacatc tgatcaccag tatatttccc 420
 ggaaacatga ggaggataag gtgatttgtt tcgaaaaggg agatttggtta tttgtgttca 480
 acttccactg caacaacagc tattttgact accgtattgg ttgtcgaaag cctgnggtgt 540
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 c 601

<210> 8019
 <211> 610
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-084-Q1-K6-C10

<400> 8019

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cgtcgcacag caacatanaa gtagaatcca ttagcaacaa tagagcaaca atggcgacca 60
agatattttc cctccttatg ctcttgctc tttctacatg tgttgctaac gcgacaattt 120
tccctcaatg ctcaacaagct cctatagctt cccttcttcc cccatacctt ccatcaatta 180
tagcttcagt atgtgaaaac ccagctcttc aaccaatag gtttcaacaa gcaatcgag 240
caagcaacat acctttatcg cccttggtgt ttcaacaatc accagcccta tctttggtgc 300
agtcattggt acaaaccatc agggcacaac agctgcagca actcgtgcta cctgtgatca 360
accaagtagc tctggcaaac ctttctccct actctcagca acaacaattt cttccattca 420
accaactgtc tacactgaac cctgctgctt atttgcagca acaactatta ccatttagcc 480
agctagctac tgctactct cagcaacaac aacttcttcc atttaaccaa ttggccgcac 540
tgaacccgc tgcttatttg cagcagcaaa tactactgcc atttagcgag ctagctgcag 600
caagtcgtgc 610

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<210> 8020
 <211> 642
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-084-Q1-K6-C12

<400> 8020

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tccctccttg cgcttcttgc gctttttgcy agcgcaacaa atgcgttcat tattccacaa 120
tgctcacttg ctccaagttc cattattaca cagttcctcc caccagttac ttcaatgggc 180
ttcgaacacc cagctgtgca agcctatagg ctacaacaag caattgcggc gagcgtctta 240
caacaaccaa tttcccagtt gcaacaacaa tccttggcac atctaacaat acaaaccatc 300
gcaacgcaac agcaacaaca attcctacca gcactgagcc acctagccat ggtgaaccct 360

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gccgcctact tgcaacagca gttgcttgca tcaaaccac ttgctctggc aaacgtagtt 420
gcaaaccagc cacaacaaca gctgcaacag tttctgccag cgctcagtca actagccatg 480
gtgaaccctg ccgcctacct acaacagcaa caactgcttt catctagccc gctcgtgtg 540
gccaatgcac ctacatacct gcaacaacaa ttgttgcaac agattgtacc agctctgact 600
cagctagttg tggcaaacc tgctgcctac ttgcaacagc tg 642

<210> 8021
<211> 126
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-K6-C2

<400> 8021
naaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa gaaaaaaaa 60
aaaaaaaaa aaaaaaatgg gcgggccctt ttaagaggaa ccaagcttta ctgtacctt 120
tgcatg 126

<210> 8022
<211> 342
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-K6-C3

<400> 8022
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ttgctcctt atgctccttg gtctttctgc aagtgtgct acggcgacca ttttcccgca 120
atgctcgcaa gctcctatag ctcccttnn cttncctccg tacctctcac cagcgggtgc 180
ttcgggtatgt gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcacagctgg 240
catcttacct ttatcacct tgttctcca acaatcatnn cagccctatt acatcagtta 300
cctttggtgc atttaattgg cacaanaaca tcagggcaca aa 342

<210> 8023
<211> 621

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-C4

<400> 8023

accatcaciaa cgcaacagca acaacagttc ctaccagcac tgagccacct agccatggtg 60
aaccctgccg cctacttgca agagcagctg cttgcatcca acccacttgc tctggcgaac 120
gtagttgcaa accagcaaca acaacagcta caacagtttc tgccaacgct cagtcaacta 180
gccatggtga accctgccgc ctacgtacaa caacaacaac tgctttcatc tagcccgtc 240
gctgtgggca atgcacctac atacctgcaa caacaattgt tgcaacagat tgtaccagct 300
ctgactcaac tagctgtggc aaaccctgtt gcctacttgc aacagctgct tccattcaac 360
caactgactc tgtcgaactc tgctgcgtac ctacaacagc gacaacagtt acttaatcca 420
ttggtagtgg ctaaccatt ggctgccgcc ttctacagc agcaacaatt gctgccatac 480
aaccagttct ctttgatgaa tcctgtcttg tcgaggcagc aaccatcgt tggaggtgcc 540
atcttttaga ttacatatga gatgtactcg ataatggtgc cctcataccg acgtgtgttt 600
cctagaaata tcaatatatt g 621

<210> 8024
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-C6

<400> 8024

agcaggcaac aagcaagatt acctgcccac cgatcatatc gtcaactggt ccggcagttc 60
gagacaccat gagctccacg gagtgccgag cggcgccgag cggcgccaag acgtcgtggc 120
ctgaggtggt cgggctgagc gtggaggacg ccaagaaggt gatcctcaag gacaagccgg 180
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gtgtccgcat cttcgtcagc atcgtcgccc agacgccccca catcggctga taatatataa 300
gctagccgct atttccttcc cttgccccag aacttgaaat aaatatatat acgatgaaat 360
aacgcgggca tgccgaataa tggatgtgtg aattctcact aattaagtaa tgcac 415

<210> 8025
 <211> 193
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-C7

<400> 8025

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 tcgcgtttcg tgggtgagtc gggtcgcgta tggcggcgtc gcgttggttg agtaccgtct 120
 ggcttcgtgc ggcgtgcctc gctcttgggc ctggggtcga ctcatctccc ttccacaagt 180
 cgccttcagc tac 193

<210> 8026
 <211> 649
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-084-Q1-K6-C9

<400> 8026

cggccacgtc gcactcgtcg cacgcgcgcc ggcttgggcg tcccggccgc gtccacgttc 60
 cgccgcggcg ccgcgcaggg cctgaggggg gcccgggctt cggcggcggc ggacacgttc 120
 agcatgcgga ccagcgcgcg cgcggcgccc aggcaccagc agcaggcgcg ccgcgggggc 180
 aggttcccgt cgctcgtggt gtgcgccagc gccggcatga acgtcgtctt cgtcggcgcc 240
 gagatggcgc cgtggagcaa gaccggcggc ctggcgacg tcttcggcgg cctgccgccg 300
 gccatggcgc cgaacgggca ccgtgtcatg gtcgtctctc cccgctacga ccagtacaag 360
 gacgcctggg acaccagcgt cgtgtccgag atcaagatgg gagacgggta cgagacggtc 420
 aggttcttcc actgctacaa gcgcggagtg gaccgcgtgt tcgttgacca cccactgttc 480
 ctggagaggg tttggggaaa gaccgtngag aagatctacg ggctgtcgc tggaacggac 540
 tacagggaca accagctgcg gttcatcctg ctatgccagg cagcacttga agctcctagg 600
 atcctgagcc ttgacaacaa ccatacttc ttcggaccat acggggagg 649

<210> 8027
 <211> 610
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-D1

<400> 8027

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tatgctcctt ggtctttctg caagtgtgc tacggcgacc attttccgc aatgctcgca 120
agctcctata gcttcccttc tttccccgta cctctcacca gcggtgtctt cggtatgtga 180
aaacccaatt cttcaaccct acaggatcca acaggcaatc gcagctggca tcttaccttt 240
atcacccctg ttcctccaac aatcatcagc cctattacaa cagttacctt tgggtgcattt 300
attggcacia aacatcaggg cacaacaact acaacaactt gtgctagcaa accttgctgc 360
ctactctcag caacagcagt ttcttcatt caaccaacta ggttcattga actctgcttc 420
ttatttgcaa caacaacaac taccattcag ccagctacct gctgcctacc ccagtaatt 480
tcttccattc aaccaactag cagcattgaa ctctcctgct tatttacagc agcaacaact 540
actaccattc agccagctag ctggtgtgag cctgctacc ttcttgacac aaccacagtt 600
gttgccgttc 610
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<210> 8028

<211> 607

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-D10

<400> 8028

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acagctgcaa cagtttatgc cagtgtcag tcaactagcc atggtgaacc ctgccgtcta 180
cctacaacta ctttcatcta gcccgtcgc ggtgggcaat gcacctacgt acctacaaca 240
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ctacttacia cagttgcttc cattcaacca actggctgtg tcaaactctg ctgcgtacct 360
acaacagcga caacagttac ttaatccatt ggcagtggt aaccattgg tcgctacctt 420
cctgcagcag caacaacaat tgctgccata caaccagttc tctttgatga accctgcctt 480
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gcagcaaccc atcggtggag gtgccatctt ttagattaca tatgagatgt actcgacaat 540
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<210> 8029

<211> 462

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-D11

<400> 8029

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 tgtcactacc atcatcggcg gcggcgactc tgtcgctgct gtcgagaagg ctgggctggc 120
 ggacaagatg agccacattt cgaccggcgg cgggtgcgagc ttggaactct tggaaggcaa 180
 gactctacct ggtgtccttg ccctcgatga cgcttagatc cgctgctgct gctgctgctg 240
 ctactcaggt tctgccagct ttgcgtgtca tcttgcttcg gaccttggtg taacgctgca 300
 aggttaaggt ttactcctcc acacatggac ttttggggat aggcttgcca tcgtgttttg 360
 ctagatgagt cgtgaaataa gcttttactt cctcgctgct gtgggtgaag taactggaat 420
 tcggaaattt ggaactaaca aaaccccccg tggatttgta tg 462

<210> 8030

<211> 524

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-D2

<400> 8030

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 cattcaatca actagctggg gtgaaccctg ctgcttactt gcaggcacia cagctactac 120
 cattcaacca acttgctggg agccctgctg ccatcttatt gcagcaacag ttgctgccat 180
 tccgtctaca agttgttgca aacattgctg ctttcttgca acaacaacia ttgctgccat 240
 tttaccaca ggttgctggg aacattaacg ctttcttgca acaacaacia ttgctgccat 300

tctaccacaca ggatgtggca aacattgtcg ccttcttaca acaacagcaa ttgctgccat 360
 ttagccaact cgctttgacg aatcctacca ccttattgca tcagcccacc attggtggta 420
 ccatcttcta gatTTTTTat gctttatact gtaataataa atntctcata ctgatatgtg 480
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<210> 8031

<211> 168

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-D3

<400> 8031

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 ctgcagcagc caggtccctg cccttgcaac gcagctgccg gcggtgtcta ctactgagga 120
 aactatgtac tgtagtaata atgtaatgga gccgctgact agctncct 168

<210> 8032

<211> 624

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-D4

<400> 8032

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 tccttatgct ccttggctct tctgcaagtg ctgctaccga naccattttc ccacaatgct 120
 cacaagctcc tatagcttcc tttcttcccc catacctctc accagcgggtg tcttcagtat 180
 gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcgcagca ggcatcttac 240
 ctttatcacc cttgttctc caacaaccgt cagccctatt acagcagtta cctttgggtgc 300
 atttgttggc aaaaaacatc aaggcacaac aactacaaca acttgtgcta ggaaaccttg 360
 ctgcctactc tcagcaacag cagtttcttc cattcaacca actggctgca ttgaactctg 420
 ctgcttattt gcaacaacaa ctaccattca gtcagctagc tgctgcctac cccagcaat 480
 ttcttccatt caaccaactg gcagcattga actctgctgc ttatttacia cagcaacagc 540

taccaccatt cagccagcta gctgatgtga gccctgttgc cttcttgaca cacaacagtt 600
gttgccgttc tacctgcacg ctgc 624

<210> 8033
<211> 639
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-K6-D5

<400> 8033

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cgcaatgctc gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtg 180
cttcgggtatg tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgagctg 240
gcatcttacc tttatcacc ttgttctctc aacaatcatc agccctatta caacagttac 300
ctttggtgca tttattggca caaaacatca gggcacaaca actacaaca cttgtgctag 360
caaaccttgc tgctactct cagcaacagc agtttcttcc attcaaccaa ctaggttcat 420
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acccccagca atttcttcca ttcaaccaac tagcagcatt gaactctcct gcttatttac 540
agcagcaaca actactacca ttcagccagc tagcctggtg tgaagccctg ctaccttctt 600
gacacaacca cagttgttgc cgttctacca gcacgttgc 639

<210> 8034
<211> 210
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-D6

<400> 8034

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caaccaactt gctttgacaa acccaacagc attctaccaa caacccatca ttggtggtgc 120
cctcttttag atttcttatg agttatagtt caataataaa gttttttgtc tgatgtttgt 180

ggcttcccag aaataagaaa gtacatttct

210

<210> 8035

<211> 480

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-D7

<400> 8035

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acaatgctca caagctccta tagcttccct tcttcccca tacctctcac cagcgggtgc 180
ttcaatgtgt gaaaccccaa ttgttcaacc ctacaggatc caacaggcaa tcgcaacagg 240
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aaaccttgct gcatactctc agcaacatca gtttcttcca ttcaaccaac tggctgcatt 420
gaactctgct gcttatttgc aacaacaatt accattncac cagctagttg ctgcctaccc 480

<210> 8036

<211> 614

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-D8

<400> 8036

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cagcgctttc ttggatcgcg aggaaccac tcggggagtt tgcagttgca gagaactgta 180
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cgggatggag gcgacgtgg acgtggacgt ggacgaggag atgatggcgt tcggcggcgg 480
 cggcggcggg gagaagaagc gggcctgag cgccgagcag gtgcgcgcgc tggagcggag 540
 cttcgaggtg gagaacaagc tggagccgga ggcgaaggcg cggctggcgc gcgacctcgg 600
 cctgcagccc gccca 614

<210> 8037

<211> 626

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-E1

<400> 8037

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 aagaggaagg ccaaaaaact gttaaaggaa agatctggga taagcctata gtgaagcttc 120
 ttagtcctgt tctgtcattg ccaacaccca acaaagcagc taatcaatcc agcgaagatg 180
 ctggtgacat agtaaacaga gccatccctg actacctgga acaaagaaca acacagaagc 240
 ttttgttggg tgggtcaggg gcaagcacca tactcaagca ggcaaagtgc ttgtacaaga 300
 ctggcaagcc attttcagtg gatgagcgtg aagatctgaa acttatcata caaagcaaca 360
 tatacaacta ctttggcata ttgcttgaag ggcgtagcgc gtttgaagag gaatctttag 420
 ctgatagaag aaaaaccagt cagtgtgacc cttctagctc tgggtgttgt gaacctggat 480
 tatctgacga agtcactgag tactccctta ttccacgttt gaaagcattc tcagattgga 540
 ttcttaaagc aatggcttta ggtaatcttg aagactatct cctgcagcaa gccgtgaata 600
 tgcaccactt gttgatgaat ttatgg 626

<210> 8038

<211> 208

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-E10

<400> 8038

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tcacctattg caacagncag nctgcttgca tccaaccac ttgctctggc gaacgtagct 120
gcataccagc aacaacaaca gctgcaacag tttatgccag tgctcagtca actagccatg 180
gtgaaccctg ccgctctacct acaactac 208

<210> 8039

<211> 564

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-E11

<400> 8039

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ggtcaacttc tttgacaaat gcaaggcaga tccgagctac tgggacaaga tctcacaggg 120
cggcctgcag agaatttatg agaagtacac ctggaagctc tactccgaga ggctgatgac 180
cctgaccggc gtgtacgggt tctggaagta cgtgagcaac ctggagaggc gcgagaccgc 240
ccgctacatc gagatgttct acgccctgaa gtaccgtagc ctggcaagcc aggttccgct 300
gtccttcgat tagtacgggg aaagaagaag aagaagaagc ccaggccgga gaaccatcgc 360
ctgcatttcg atctgtttca ccgcaattcg cattgttagt cgtgtattgg agttatgtgt 420
acttggtttc caagaacttt gggtccttgt ttttttttct ttcttgtttg agcgtttttg 480
ggcagcgctg gcctggttcc tagtatggtg agaattggct gcaccttttg cttcgaataa 540
aatgacctgc tcgttcacct gtaa 564

<210> 8040

<211> 642

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-E12

<400> 8040

ccgctcgcgc atcctattgc cctcgcgcca ccgctcgccgc cgctgcagcg agccaccgcc 60
ctgccgtcgc ctgaggtaga caccaagcca ccgccatggg gcgtatgcac agccgcggga 120
agggatatctc ttcacggcg ctgccgtaca agaggactcc tccgatctgg ctcaagacag 180
ctaccaccga ggtggaggag atgattacca aggctgcgaa gaagggccag atgccgtcgc 240

agattggtgt tctgctccgt gaccagcacg gcatcccgct tgtcaagagc gtgactggta 300
 gcaagatcct ccgcatcctc aaggcccatg ggttggcgcc ggagatcccg gaggatctct 360
 acttctcat taagaaggcc gtggcgatta ggaagcatct ggagaggaac aggaaggaca 420
 aggactcaa attcagactc attcttggtg agagcaggat ccaccgctt gcccgctact 480
 acaagcgta caagaagctc ccaccacct ggaagtacga gtcaaccacg gcgagcactc 540
 tgggtggcta agtgatatcc tctgatggct tgggtcttag cacctatgag cttgttctag 600
 atatgaattt atgtaattct tggtatgtct ggagctgggt ag 642

<210> 8041

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-E2

<400> 8041

ctcttacaac tacaacaatt gttgcccttt gtccaacttg ctttgacaga ccagcggcc 60
 tcctaccaac aacacatcat tgggtggcgcc ctcttttaga ttgcttatta gttgtaattc 120
 aataataaag ttttttggat gatgtatgtg gcccaaccaga aataagaagt tacatttcca 180
 gattc 185

<210> 8042

<211> 622

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-E3

<400> 8042

gaccaacagc acatanaagt ggaatccagt agcaacaaca gagcaacaat ggcgaccaag 60
 atattttccc tccttatgct ccttgctctt tctgcatgtg ttgctaacgc gacaattttc 120
 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180
 gcttcagtat gtgaaaacc agctcttcag ccctataggc tccaacaagc aatcgagca 240
 agcaacatac ctttatcacc cttgttggtt caacaatcgc cagccctatc tttggtgcag 300

tcattggtac aaaccatcag ggcacagcag ctgcagcaac tcgtgctacc tgtgatcaac 360
 caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420
 caactgtcta cactgaaccc tgctgcttat ttgcagcaac aactattacc attcagccag 480
 ctagctactg cctactctca gcaacaacaa cttcttccat ttaaccaatt ggccgcactg 540
 aaccccgctg cttatttgca gcagcaaata ctactaccat ttagccagct agctgcagca 600
 aaccgtgctt ccttcttgac ac 622

<210> 8043

<211> 604

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-E4

<400> 8043

taacaaactc cacaacaatg aaccctactt agaatcgaat tttcttgtga ggttgatgga 60
 agaaatggaa gaggaagaag aagagttgga gttggcgagg cacatgctca ataggaggcg 120
 gcgtgcacgc aacactttgc aacaattcaa gagtctgctc ngaaaagata ttgtacgaga 180
 tttcgggtgta ctccagaagc gatgggggtgt ggttcgtggc cctgcttacg gttggagtcc 240
 tgaacacatt ggggacatca tgaaaacttg cataatattg cacaacatga tagtagaaga 300
 cgaagggtcca ttggctttga acacaacctt tgaaaacatc ggagtgtcgc ctgacacaag 360
 tcaagggttca atggaagagc gtaacaattt cgtcaatcaa aggtacaacc aactcaaaga 420
 ccgcaacaaa tatactcagc ttcagattga tcttatacac catcactggg cgcgacatgg 480
 atccggagtt gcatagtctg ttcttgtgtc atgtctgttc ttgtctcatg tttgttagtt 540
 taccttggtc tagtgctgaa ctgtctgtac tgtctgccgt agtgtcgcac gtaagtgtc 600
 tttc 604

<210> 8044

<211> 626

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-E6

<400> 8044

ttgagaccac agcacatana agtgaatac agtagcaaca atagagcaac aatggcggcc 60
aagatatttt ccaccccttat gctccttgct ctttctgcat gtgttgctaa cgcgaccatt 120
tttcttcaat actcacaagc tcctatagct gcccttcttc ccccatacct tccatcaatg 180
accgcttcag tttgtgaaaa ccagcgcctt caaccctaca ggctccaaca agcaatcgca 240
acaagcaact tacctttatc acccctgttc tttcaacaat cgccagccct atctttggtg 300
cagtcattgg taaaaacat cagggcaca cagctgcaac aactcgtgct accagtgatc 360
agccaagtag ctctggcaaa cctttctccc tactctcagc aacaacaatt tcttccattc 420
aaccactgt ctactgaa ccttctgct tatttacaac aacaacaact actaccattc 480
agccagctag ctactgccta ctctcagcag caacaatttc ttccatttaa ccaattggcc 540
gcactgaacc cctctgctta tttccagcag caaatactac taccatttgg ccagctagct 600
acaacaagcc ccacttcctt ttgaa 626

<210> 8045

<211> 257

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-E7

<400> 8045

gggttggtt ctctccccc tccggttcgg gttcgggttc gtgaggttct ccgggggttcg 60
gtttcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc tgcttcgtcg 120
gcggcctcgc ctgggccacg gaccgaccac ttcccttcca cnaacgnnc ttcagcacct 180
taccggcgga ggtcctcgag tccaagatca tcctcgatcg ggagacgcag aggtcccgcg 240
gcttcggctt cgtcacc 257

<210> 8046

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-E8

<400> 8046

cgggtccggaa tccggtcgcc caccggtccg ccgccctttt tttttttttt tggaaagtaa 60
 ttttttttgg ttggcacata catatcaaaa aacttattat tgaatacaac taataagcaa 120
 tctaaaaagg caccaccaat gtggtgtggt aggaggccgt cggctgcaaa caagtggcaa 180
 aggcaacaat tgtgtattgt aagaggggtgg ggttgccgca aacgtggtga aagcactg 240
 tgctggtcaa gaagaacacg ttgtgactg ctggctaaat gtagagattt gtgtgaaata 300
 acacgggttc atgcggcatt gttccattaa cca 333

<210> 8047

<211> 625

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-E9

<400> 8047

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 cgcggcgccg cgcaggccct gagggggggc cgggcgtcgg cggcggcgga cacgtcagc 120
 atgcggaacca gcgcgcgcgc ggcgccagg caccagcagc aggcgcgccg cgggggcagg 180
 ttcccgctgc tcgtcgtgtg cgccagcgcc ggcattgaac tcgtcttcgt cggcgccgag 240
 atggcgccgt ggagcaagac cggcggcctc ggcgacgtcc tcggcggcct gccgccggcc 300
 atggccgcga acgggcaccg tgtcatggtc gtctctcccc gctacgacca gtacaaggac 360
 gcctgggaca ccagcgtcgt gtccgagatc aagatgggag acgggtacga gacggtcagg 420
 ttcttccact gctacaagcg cggagtggac cgcgtgttcg ttgaccaccc actgttcctg 480
 gagagggttt ggggaaagac cgaggagaag atctacgggc ctgtcgctgg aacggactac 540
 agggacaacc agctgcggtt cagcctgcta tgccaggcag cacttgaagc tccaagnatc 600
 ctgagcctca acaacaaccc atact 625

<210> 8048

<211> 638

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-F1

<400> 8048

attcagaaac acaccaagcg aagcgacta gcaacgacct aacaacaatg gctaccaag 60
tattagccct ccttgcgctt cttgcccttt ttgtgagcgc aacaaatgcg ttcattattc 120
cacaatgctc acttgctcct agtgccatta ttccacagtt cctcccacca gttacttcaa 180
tgggcttcga acacctagct gtgcaagcca acatgcaaca acaagcgctt gcggcgagcg 240
tcttacaaca accaattgcc caattgcaac aacaatcctt gccacatcta acaatacaag 300
ccatcacaac gcaacagcaa caacagttcc taccagcact gagccaccta gccatgggtga 360
accctgccgc ctacttgcaa gagcagctgc ttgcatccaa cccacttgct ctggcgaacg 420
tagttgcaaa ccagcaacaa caacagctac aacagtttct gccaacgctc agtcaactag 480
ccatgggtgaa ccctgccgcc tacgtacaac aacaacaact gctttcatct agcccgcctcg 540
ctgtgggcaa tgcacctaca tacctgcaac aacaattggt gcaacagatt gtaccagctc 600
tgactcaact agctgtggca aaccctgttg cctacttg 638

<210> 8049

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-F10

<400> 8049

accognatcg acaccatgaa ggagtagttg ctcgtnntgc cctcgctctc ctggnctctc 60
gctgengagc cgccacctcc acgcatacat agcggcggct gcggctgcca gccaccgccg 120
ccggttcate taccgccgcc ggtgcatctg ccacctgcgg ggcacctgcc acctccggtg 180
catctcccac cgccggtcca cctgccgccg ccggtccacc tgccaccgtc ggtccatgtg 240
ccgccgtcgg ttcattctgcc gccgccacca tgccactacc ctactcaacc gaccggcct 300
cagcctcatt ccagccaca cccatgcccc tgccaacagc cgcaccaag cccgtgccag 360
ctgcagggaa cctgcccgtg tggcagcacc cccatcctgg gc 402

<210> 8050

<211> 605

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-K6-F11

<400> 8050

aatcgatctc ccttccccac caaaccggna cacttcggag gccggaccgc gcgagaagcg 60
accgaccgca gccagctcac gtctccctct tcatccacca tgctgagggt cgcgggcagg 120
cgcctctcgt ccgctctcgc ctggcgcccc gccggccgcg cctcaggctc ccggggccct 180
ctcgccggta cactaccgcg ccgcgacgac gacgacacac gcgactgcag ggcgcgtttc 240
gccatcgaat ctcccttctt cgccgctgcc agagggtttt cagcagagac tcttgctcca 300
agaaaccagg atgtgggctt atctgagctc ccagcaactg tggcagctgt gaagaatcca 360
agtggaaaaa tcgtgtatga tgagtataac catgagcgct acccacctgg agaccccgagc 420
aagcgtgcat ttgcctactt tgtgctgagt ggtgggaggt tcatttacgc atctttgctg 480
cgacttctcg tcttaaaatt tgtcctaagc atgtcagcaa gtaaggatgt tctcgcgctt 540
gcctcacttg aggttgacct ctcaagcatt gagcctggaa ccacggtgac ggtgaagtgg 600
cgtgg 605

<210> 8051
<211> 614
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-F12

<400> 8051

gcggcagtg cgtgagagga cgtcgacaga acacatgaag aggtcatcgt tctcgtcgtg 60
tgccctggctc tgtcagctgc cagcgccctct gcaatgcaga tgccctgccc ctgcgcgggg 120
ctgcagggct tgtacggcgc tggcgccggc ctgacgacga tgatgggccc cggcgggctg 180
taccctacg cgaggtacct gaggcagccg cagtgcagcc cgctggcggc ggcgccctac 240
tacgcccgggt gtgggcagac gagcgccatg taccagccgc tccggcaaca gtgctgccag 300
cagcagatga ggatgatgga cgtgcagtcc gtcgcgcagc agctgcagat gatgatgcag 360
cttgagcgtg ccgctgccgc cagcagcagc ctgtacgagc cagctctgat gcagcagcag 420
cagcagctgc tggcagccca ggtctcaac cccatggcca tgatgatggc gcagaacatg 480

ccggccatgg gtggactcta ccagtaccag taccagctgc ccagctaccg caccaacccc 540
 tgtggcgtct ccgtgccat tccgccctac tactgattca tgatatttgg gaaatctcct 600
 ctatccatcc ctct 614

<210> 8052

<211> 580

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-F2

<400> 8052

cccggttgct ccccttggga tcttgtttg cttctgctg cctggccttc tctctcccc 60
 aaaatcaatc gccacaaaag gagagccagc caaatcttcc acctctcca tttccagccc 120
 cgtccccaca ccagctcgcg taacctctg cccatggctg gaggcggcgg cgcaggcgcg 180
 ggctcgctgt ccggcggcgg cgaggggggc ggcaggagg gcgactggga ctgcggcagc 240
 tgcggcaacc gcaactacgc cttccgctcg ctctgcaacc gctgcaagca gccgcgcctc 300
 ctctcgacc ccaacacccc gcgcgactcc aagtggctac cccgcgccgg ggactggatc 360
 tgcaccggtt gcagtaacaa taattatgca tccagaaaga actgcaaaaa gtgtggcttg 420
 cccaaggagg aagcagcaat gccagcattg caaatggcag ggatgactat gccagcttat 480
 gcaacttata ttgcaagact acaaagcctt gctgcttctg cttctgccta taagatgaac 540
 tttgggatgg ctgccaattc acctttgcag cagcaactac 580

<210> 8053

<211> 486

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-F3

<400> 8053

gctggtacgt gaccagccgg nctgcggca tcgggccgg cctcccgtgg ccggagctga 60
 agaggagatg ctgccgggag ctggcggaca tccggcgta ctgccggtgc acggcgctga 120
 gcacctcat ggacggcgcg atccccccgg gcccgacgc gcagctggag ggccgcctag 180
 aggacctgcc gggctgcccg cgggaggtgc agaggggatt cgccgccacc ctctcacgg 240

aggccgagtg caacctggcc accatcagcg gcgtcgccga atgcccctgg attctcggcg 300
gcggaacgat gccctccaag taactgcaa gagcatagtg catgaggaat gagctttag 360
ctagtcata tgtctgaata ataagcacag caagaagatg aatgcatttc tcggatcggt 420
catccggaac aataattaa ggggatccgg atttgttctt gtgatataat taacgattcc 480
tgttaa 486

<210> 8054
<211> 596
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-K6-F4

<400> 8054

gccaactag caacatagna aagcacaata gtgtaccaac aatggcagcc aaaatttttg 60
cctccttatg ctcttggtc tttctgcaag tgctgctacg gcgaccattt tcccgcaatg 120
ctcgcaagct cctatagctt cccttcttcc cccgtacctc tcaccagcgg tgtcttcggt 180
atgtgaaaac ccaattcttc aaccctacag gatccaacag gcaatcacag ctggcatctt 240
acctttatca cccttggtcc tccaacaatc atcagcccta ttacatcagt tacctttggt 300
gcatttattg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360
tgctgcttac tctcagcaac agcagtttct tccattcaac caactagctg cattgaactc 420
tgcttcttat ttgcaacaac aacaactacc attcagccag ctacctgctg cctaccccca 480
gcaatttctt ccattcaacc aactggcagc attgaactct cctgcttatt tacagcagca 540
acaactacta ccattcagcc agctagctgg tgtgagccct gctaccttct tgatac 596

<210> 8055
<211> 520
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-K6-F6

<400> 8055

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ttgcttcctt atgctccttg gtctttctgc aagtgttgct accgcaacca ttttcccaca 120
 atgctcacia gctcctatag ctctcttttt ttccccatac ctctcaccag cggtgtcttc 180
 agtgtgtgaa accccaattg ttgaacctg caggatccaa caggcattgg caacaggcat 240
 cttaccattt tcaccttgt tctccaaca accgtctgtc ctattacagc agtttccttt 300
 ggtccatttg gtggctcata acatcagggc tcagcaacta catcaacttg tgctagcata 360
 ccttgctgca tactgttagc ttcttcattt tctttccttc aaccaactgg ctgcgttgna 420
 ctctgttggt tatttgctac aacaattacc gtttcatcca gctagggtgc tgctccccc 480
 ccgttgcttc ttccatttng cctacttgca gcttttaact 520

<210> 8056

<211> 611

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-F8

<400> 8056

ctctctctgt ctcttgcac tccatgctgc tcaactgccac tgccagcaga tcgagctgct 60
 ccgtctcaca aacctcttg ctttgctgct gcacctgcaa gtctgcaacc gcgcacacag 120
 agatgtcgac gacggtgagc cgtgcgtccc tcgaccagaa gctcgccctc gccaagcgtt 180
 gctcccgaga ggcgacctc gccggagcca aggcggcagc ggtggcgact atcgccctcg 240
 cgatccccac cctggccagc gtgcggatgc tgccatgggc caaggccaac atcaacccca 300
 ccggccaggc gctcatcgtc tccacggtgg ctgggatggc ctacttcac gccgccgaca 360
 agaagatcct gtcgctggcg aggcgccact cgttcgacca agcccctgac cacctcaaga 420
 acacctcctt ccagggcacc ggccgtcccc acccggcctt cttcaggccg tgagacgaga 480
 cctccgtctc cagagctagc tacttacctc ttttttcagt ttgccaatgc aagcaccaaa 540
 tgcccaccga tgcattgctg aataaactac tgtaattgag aggtgtgctga acatcgatgc 600
 gctagtataa c 611

<210> 8057

<211> 562

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-K6-F9

<400> 8057

ttttgagctt canaaacaca ccaagcgaac acattagcaa caacctaaca acaatggcta 60
ccaagatatt atccctcctt gcgcttcttg cgctttttgc gagcgcaaca aatgcgttca 120
ttattccaca atgctcactt gctccaagtt ccattattac aaggttcctc ccaccagtta 180
cttcaatggg cttcgaacac ccagctgtgc aagcctatag gctacaacaa gcaattgcgg 240
cgagcgtctt acaacaacca atttcccagt tgcaacaaca atccttggca catctaacaa 300
tacaacccat cgcaacgcaa cagcaacaac aattcctacc agcactgagc cacctagcca 360
tggtgaaccc tgccgcctac ttgcaacaac agttgcttgc atcaaaccga cttgctctgg 420
caaacgtagt tgcaaaccag ccacaacaac agctgcaaca gtttctgcca gcgctcagtc 480
aactagccat ggtgaaccct gccgcctacc tacaacagca acaactgctt tcacttagcc 540
cgctcgctgt ggccaatgca cc 562

<210> 8058

<211> 156

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-K6-G1

<400> 8058

gngcccaact agcaacatag naagcacaat agtgtacca caatggcagc caaaatattt 60
tgcttcttta tgctccttgg tctttctgca agtgttgcta ccgcaaccat tttccacaa 120
tgctcacaag ctcttatagc ttcccttctt ccccca 156

<210> 8059

<211> 623

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-K6-G11

<400> 8059

gcgacgccaa naatccaana agccaanacc gtgcccggca ctgccaaggc aaccgtggac 60
gacgaggtga cgctccgtcg gttcgagctg accgacgtgg acgccatgat ggagtgggcg 120
tcggaccctc aggtggcggc cttctgccgg tgggagccgt acgcgtcggc ggagccgctg 180
ctggagttcc tgcgcgacgc cgtgctcccg caccctgggt accgcgccat ctgcgtctcc 240
ggcgcggtgg tgggcgcggt gtccctggcg cccacgccgg agcgctgccg ctgggagctc 300
ggctacgtgc tggcccgcgc gcaactgggg aaaggcttgg cgacggcggc cgtgcggcgc 360
gcgctgcggg acgcgttcgc ggacctggag cgggagggcc tgcggcgcgt ggaggcgatg 420
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ggcgtgctgc ggcgccaacta ctggcacaag gggcgcgcca gggacatggt catgtacagc 540
ttcctctcct ccgacccctt ccccgagtga gaacgatccc catggcgggt ggattcccca 600
tgcagttaac gttcgtttac ctg 623

<210> 8060

<211> 622

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-G2

<400> 8060

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aaatttttgc ttccttatgc tccttgggtc ttctgcaagt gttgctaccg anaccatttt 120
cccacaatgc tcacaagctc ctatagcttc ccttcttccc ccatacctct caccagcggc 180
gtcttcaatg tgtgaaaccc caattgttca accctacagg atccaacagg caatcgcaac 240
aggcatctta ccattatcac ccttgttcct ccaacaaccg tcagccctat tacagcagtt 300
acctttggtc catttgggtg cacaaaacat cagggcaca caactacaac aacttgtgct 360
agcaaaccctt gctgcatact ctgagcaaca tcagtttctt ccattcaacc aactggctgc 420
attgaactct gctgcttatt tgcaacaaca attaccattc agccagctag ttgctgccta 480
ccccagcaa tttcttccat tcaaccaact agcagcattg aactctgctg cttatttaca 540
gcagcaacaa ctactaccat tcagccagct agctgatgtg agccctgctg ccttcttgac 600
acaacaacag ttgttgccgt tc 622

<210> 8061
 <211> 630
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-084-Q1-K6-G3

<400> 8061

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 gtgctgatcg ttgcccttgc tctcctggcg ctcgctgcga gcgccgcctc cagtacaagc 120
 ggcggtctgtg gctgccagac accaccgttt catctaccgc ctccgttcta tatgccgcct 180
 ccgttctatc tgccgccgca gcagcagccg cagccatggc aatacccccac tcaaccaccg 240
 cagctaagcc cgtgccagca gttcggatcc tgcggcgctc gcagcgtcgg cagcccgttc 300
 ctggggcagt gcgtcgagtt cctgaggcac cagtgcagcc cggcggcgac gccctacggc 360
 tcgccacagt gccaggcgct gcagcagcag tgctgccacc agatcaggca ggtggagccg 420
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 cagggcgagc tcgcggcgct gatggcggcc caggtagcgc agcagctgac ggcgatgtgc 540
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<210> 8062
 <211> 629
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-084-Q1-K6-G4

<400> 8062

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 gctgtggctg ccagacacca ccgtttcatc taccgcctcc gttctatatg ccgcctccgt 180
 tctatctgcc gccgcagcag cagccgcagc catggcaata cccactcaa ccaccgcagc 240
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gccagtgcgt cgagttcctg aggcaccagt gcagcccggc ggcgacgcc tacggctcgc 360
cacagtgccca ggcgctgcag cagcagtgtt gccaccagat caggcaggtg gagccgctgc 420
accggtacca ggcgacatac ggtgtggtcc tgcagtcctt cctgcagcag cagccgcagg 480
gcgagctcgc ggcgctgatg gcggcccgaag tagcgcagca gctgacggcg atgtgcggtc 540
tgcagctgca gcagccaggc ccctgccctt gcaacgcagc tgccggcggt gtctactact 600
gaggaaacta tgtactgtag taataatgt 629

<210> 8063

<211> 627

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-G5

<400> 8063

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taccaagata ttagccctcc ttgcgcttct tgcccttttt gtgagcgcaa caaatgcgtt 120
cattattcca caatgtcac ttgtccttag tgccattatt ccacagttcc tcccaccagt 180
tacttcaatg ggcttcgaac acctagctgt gcaagccaac atgcaacaac aagcgcttgc 240
ggcgagcgtc ttacaacaac caattgccc attgcaacaa caatccttgc cacatctaac 300
aatacaagcc atcacaacgc aacagcaaca acagttccta ccagcactga gccacctagc 360
catggtgaac cctgccgcct acttgcaaga gcagctgctt gcatccaacc cacttgctct 420
ggcgaacgta gttgcaaacc agcaacaaca acagctacaa cagtttctgc caacgctcag 480
tcaactagcc atggtgaacc ctgccgccta cgtacaacaa caacaactgc tttcatctag 540
cccgtcgtc gtgggcaatg cacctacata cctgcaacaa caattgttgc aacagattgt 600
accagctctg actcaactag ctgtggc 627

<210> 8064

<211> 638

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-G6

<400> 8064

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catgaggggtg ttgctcggtg cctcgcctct cctggctctc gctgcgagcg ccacctccac 120
gcatacaagc ggcggtgctg gctgccagcc accgccgccg gttcatctac cgccgccggt 180
gcatctgcca cctccggttc acctgccacc tccggtgcat ctcccaccgc cgggccacct 240
gccgccgccg gtccacctgc caccgccggt ccatgtgccg ccgccggttc atctgccgcc 300
gccaccatgc cactacccta ctcaaccgcc ccggcctcag cctcatcccc agccacaccc 360
atgcccgtgc caacagccgc atccaagccc gtgccagctg cagggaacct gcggcggttg 420
cagcaccggt atcctgggcc agtgcgctga gttcctgagg catcagtga gcccgacggc 480
gacgccctac tgctcgctc agtgccagtc gttgcggcag cagtgttgcc agcagctcag 540
gcaggtggag ccgcagcacc ggtaccaggc gatcttcggc ttggtcctnc agtccatcct 600
gcagcagcag ccgcaaagcg gccaggtcgc ggggctgt 638

<210> 8065

<211> 554

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-G7

<400> 8065

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aatgtgnngc agttgctatt ttgctgaaa ggaactggnc ctcttnnnct ggatcattgg 120
tgtcagtnnt ttaccaggtc agacacatat aaagccatat ctagnagaca cnatgggtcc 180
cagctgctgn gaattttgtg aagaacgacc gatccacagt tantccaact acgacgacga 240
aggtgcctgg ccctacctca tagacgaatt tgtggaatat ctgactgaga acggactcgt 300
ccagcgtaaa agatgaacaa cggggagatg catctccaaa caatgggttg gctgtacaaa 360
catgatttat ctcggtcagc tcgacgccca gggcctgata ttggcactcc tgctcaattc 420
attcaccaaa ctgttggtcat atcattgaat ttgcttataa acgtggggaa acataacttg 480
cctgggaagt ggtggctgtc agcctgcgat cgtgaactgt accttatcga aaatgcaacg 540
gagtttggga ctct 554

<210> 8066
 <211> 490
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-084-Q1-K6-G8

<400> 8066

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 accacgacag gagagcgcct ttctgggcct atagcncatg aaaagatttg aggaaatgga 180
 ctgggacaag aacggaatgg tgacattcaa ggagttcctg tttgccttca ctcgctgggt 240
 aggaattgat gaaaatgagg atgaagatga cgatgaataa ggactgtgaa ggctggttat 300
 tcttcaaggg ttagggccag atcagccttg gagaagctgg aaatggatgg cggataaaaag 360
 cagttgacgt ttattggttg cttgttgatc gtaatattca tgccattgct aatagaatgt 420
 ctgcacatta tactcctagt agggtgactt gcatgtctga aacttggtat caatgttaca 480
 gttgctgtct 490

<210> 8067
 <211> 622
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-084-Q1-K6-G9

<400> 8067

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 ggaggaggag gaggaagaac cgatgccttt cgtgtatccg gaccccgagg aggtgggcga 180
 gctcacgctc gagcagctca gtgcgtatga cggcaaggac ccagccaagc agatcctcat 240
 tgccatccgg ggccaggctc acgacgtctc ccgcgggagg ctcttttatg gccctcaggg 300
 accatattcc ttgtttgccg ggagggatgc aaccggggcc ctggcattga tgtcatttga 360
 cccaaacgac ctacccgggg atctggacgg cctaagcgcc gatgagctgg aggtgttgca 420

agattgggag gaaaaattca aggagaggta tccgagggg ggccaccttg cctgtcaaga 480
 cgcgacagac agtggtcaga ccaccgctgg gcttcatcac gaggaagggg acgcctaaaa 540
 ctccactggg ttgcctcgtc ggcctctcct ctgtgttttt tttttttact tgctggattt 600
 caccctgtag atctgatgtg cg 622

<210> 8068

<211> 607

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-H1

<400> 8068

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 cgtcgggtggc ggcgtcgag gtgccccctg cgatctctgg cggggtgtcc ggggcagcgg 120
 ggccgttagc cgtgcgcttg cctgccgagc caccgctgc ggtgtcgggc ggcgtgggga 180
 tgccgatgac gaccgtgggc taccgagct tctcgacgtc caacacggag gactacacgg 240
 acgaggacga ctccgacgac gagggcacag aggagctggt ggggtggcggc gggaacgagc 300
 gcggggaagag gaagaggggtg tcagagggcg ggcctcggg cgccggcgga ggcagcggga 360
 agatgatgag gttcttcgag ggcctgatga agcaggtgat ggagcggcag gaggcgatgc 420
 aacagagggt cttggaggcc atcgagaagc gtgagcagga ccgcatgac cgcgaggagg 480
 cgtggcggcg gcaggagatg accgcctcg cgcgcgtagc aggagatcct ggcgcaggag 540
 cccgccatgg ccgcctcacg cgacgcttgc gtcctctcct ttatacagaa gatcaccgga 600
 cagacca 607

<210> 8069

<211> 626

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-H11

<400> 8069

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 atccctcctt gcgcttcttg cgctttttgc gagcgcaaca aatgcgttca ttattccaca 120

atgctcactt gctccaagtt ccattattac acagttcctc ccaccagtta cttcaatggg 180
 cttcgaacac ccagctgtgc aagcctatag gctacaacaa gcaattgcgg cgagcgtctt 240
 acaacaacca atttcccagt tgcaacaaca atccttggca catctaacaa tacaaccat 300
 cgcaacgcaa cagcaacaac aattcctacc agcactgagc cacctagcca tggatgaaccc 360
 tgccgcctac ttgcaacagc agttgcttgc atcaaacca cttgctctgg caaacgtagt 420
 tgcaaaccag ccacaacaac agctgcaaca gtttctgcca gcgctcagtc aactagccat 480
 ggtgaaccct gccgcctacc tacaacagca acaactgctt tcacttagcc cgctcgctgt 540
 ggccaatgca cctacatacc tgcaacaaca attgttgcaa cagattgtac cagctctgac 600
 tcagctagtt gtggcaaacc ctgctc 626

<210> 8070

<211> 611

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-K6-H12

<400> 8070

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 gtttcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc tgcttcgtcg 120
 ggggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180
 aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc ggcttcggct 240
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 agctggacgg ccgcaacatc accgtcaacg agggccagtc ccgcggcggc cgtggaggcg 360
 ggggcggcgg cgggtacggt ggtggccgtg gaggcggcgg ctacggcggt ggcgggcgcc 420
 gtgatggcgg cggcggttac ggcggtggcg gcggctacgg tggatggcgg gcgggttacg 480
 gtggtggttg cggcggttac ggcggtggca accgtggcgg cggctacggc aactccgacg 540
 ggaactggag gaactgagcg gtggggcccg cgcggccaag ttatcctgtt cgctaccgtg 600
 ttgtttaccc t 611

<210> 8071

<211> 528

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-H2

<400> 8071

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gtttcttcca ttcaaccaac taggttcatt gaactctgct tcttatttgc aacaacaaca 120
actaccattc agccagctac ctgctgccta cccccagcaa tttcttccat tcaaccaact 180
agcagcattg aactctcctg cttattttaca gcagcaacaa ctactaccat tcagccagct 240
agctggtgtg agccctgcta ccttcttgac acaaccacag ttgttgccgt tctaccagca 300
cgttgcgcct aacgctggca cctctttaca actgcaacaa ttgctgccat tcaaccaact 360
tgctttgaca aaccagcag tgttctacca acaaccatc attggtggtg ccctctttta 420
gatttcttat gagttatagt tcaataataa agttttttat ctgatgtttg tggcttccca 480
gaaataagaa agtacatttc taaannaaaa aaaaaaaaaa annaaaaa 528

<210> 8072

<211> 195

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-H4

<400> 8072

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caactgcgac atcgcgcgcc agcttgagcg cgccgttccc gggcagcagg ccgcctggga 120
ggcgaggagaa gaggcagcga agaggaggaa gcanaaggcc gcggcagcaa gaagcagcag 180
cagctgggag atctg 195

<210> 8073

<211> 584

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-H5

<400> 8073

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 ggcgctgaga agagatggct aagatcgccg cagccgccgc ggcggcggcg gcgctgtgct 120
 tcgcggccct ggtggccgtg gccgtctgcc aaggcgaggt cgagcggcag aggctcaggg 180
 acctgcagtg ctggcaggag gtccaggaga gcccgtctga cgcgtgccgc caggctcctcg 240
 accggcagct aaccggcggc ggcgtcggcg gcccgTtccg gtggggcacc gggctccgga 300
 tgcggtgctg ccagcagctc caggacgtga gccgcgagtg ccgctgcgcc gccatccgga 360
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 tggcggcagc agcagccgcc gccncatgga ggaggaggag gacagggggg ctactactac 480
 ccctgcagcc gggcaggaga gggataccaa acgcagatgt atccacCgtg tcagcccggc 540
 accaccgggc caaggatcgg gcgggtgagg cttacgaagg cccg 584

<210> 8074

<211> 607

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-H6

<400> 8074

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 ctgccgccag tgccctcgcc cgatttgctc cgccgagaac aacatgggga gaagctataa 120
 tcacagtcca tcgccaccaa gaggctacag gagaagaact cgcagcccaa gtcctcgtgg 180
 tcggtatgga ggccgtgata ctgataggga cctcccaact agtcttttgg tgaggaatct 240
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 agacatatat ctgccaaagg attactacac tcgggaacct agaggatttg ggttcatcca 360
 atactttgat cctgaggatg cttctgatgc aaagtactat atggatggga agatgctgct 420
 tggaagggaa attgctgttg tttttgcaga ggaaaacagg aagaagcctt ctgacatgag 480
 ggccagggaa aaaataagtg gcagaggccg ttcttatgat gggagggtgc gctcaaagtc 540
 acctgggttg aacggnctct ctaggggtag atcacgggtcc caaagccgaa gctactcgcc 600
 agcacct 607

<210> 8075
 <211> 623
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-084-Q1-K6-H7

 <400> 8075

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 ctagtgcctt ggtggctgca aaagctcttc ctatccttat gaagaaaccc caaatgggtg 180
 ctaaggagtt gcagactatt ttgcaggaca gattcacatg tgctatttca tatgacacta 240
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 ttgacctccg agttgaagat gacaaacttt tttttcagca agttcttctg tgcatttggt 420
 ccatgcattt ctgggtttta agaaggttgt agaccgtatc ttagtgtcga ctctactgct 480
 ttaaagtgtt tatgggacgg tcaactggct tctgctacaa gtgtagatgg cctgaattgg 540
 atgtaccag tggcatttgg tttttttagt tctgaaactg aagagaactg gacttggttt 600
 atgactaaat tgcaccaagc agt 623

<210> 8076
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-084-Q1-K6-H8

 <400> 8076

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 ctggtgtgag ccctgctacc ttcttgacac aaccacaatt gttgccgttc taccagcacg 180
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 ctttgacaaa cccaacagca ttctaccaac aaccatcat tgggtgggtgcc ctcttttaga 300
 tttcttatga gttatagttc aataataaag ttttttgtct gatgtttgtg gcttccaga 360

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379

<210> 8077

<211> 625

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-K6-H9

<400> 8077

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ccagaaggag tgcggtggcg cagtcgtgtc ctgctccgac gtctctcgcg tcgccgccag 180
ggactcagtc gtcgtgtccg gaggtcccag ctacaagggtg ccgctgggtc ggcgcgacag 240
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gtcggggcggc cacaccatcg ggctgggcca ctgcgcgtcc ttcgagagcc gcctgttccc 420
gcgccaggac ccgacgtga acgccacctt cgccggccac ctgcgccgga cctgcccggc 480
caagggcacc gaccgccgga cgccgctgga cgtgcgacag cccgacgcgt tcgacaacaa 540
gtactacgtc aacctggtga accgtgaggg gctcttcacc tccgaccagg acctcttcag 600
caaccccggc accaggcccc tcgtc 625

<210> 8078

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-A10

<400> 8078

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gcaccattat cgagtacatc tcatatgtaa tctaaaagat ggcacctcca acgatggggtt 120
gctgcctcga caagacaggg tttatcaaag agaactgggt gtatggcagc aattgttgct 180
gctgtaggaa ggcacgcacc aatgggttag cactgctag tggattaagt aactgttgct 240

gctgtttag gtacgcagca gagttcgaca tagtcatttg gttgaatgga agcagctgtt 300
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acaattgttg ttgcaggtat gtaggtgcat tggccacagc gagcgggcta gatgaaagca 420
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<210> 8079

<211> 198

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-N6-A2

<400> 8079

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gttttttttaa tttggtgggg tgtagggggg ggggtggggg ggggggggtt aatgggggta 120
agggaggggg gggaaaaaaa agttaggggg ggggggggga aaaaaaggt naaggagaaa 180
aaaagaaaaa gaaggggg 198

<210> 8080

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-N6-A4

<400> 8080

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atctcatatg taatctaaaa gatggcacct ccttatatgg gttgctgcct cgacaagcac 120
aggattcttt atggagagct ggttgatgag cagcaattgt tgctgctgta ggaaggcggc 180
gaccaatggg ttagccacta ccaatggatt aagtaactgt tggcgctgtn gtaggtacgc 240
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gtttgccaca gctagttgag tcagagctgg tacaatctgn tgcaacaatt gatgttgacg 360
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<210> 8081

<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-N6-A7

<400> 8081

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gggggggggn gggggggggg gggggggggg gggngggggg gggggggggg gggggggggg 180
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<210> 8082
<211> 324
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-N6-A8

<400> 8082

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tatgagggca ccattgtcga gtacatctca tatgtaattt aaaagatggg cctccaacga 120
tgggttgctg caaggaggg tgggtcaaag agaactggtt gtatggcagc aattggtgtt 180
gctgctgcag gaaggtngcg accaatgggt tagccactgc caatggatta agtaactgtt 240
gtcgtgttg taggttcgca gcagagtttg acacaccag ctggttgaat ggaagcaact 300
gttgtaagta ggcagcaggg tttg 324

<210> 8083
<211> 477
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-B10

<400> 8083

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cccatgtcg agtccatctc atatgtaatc taaaagatgg cccctccaac gatggggttc 120
tgcaaggcag ggttcatcaa agagaactgg ttgtatggca gcaattgttg ttgctgctgc 180
aggaaggtag cgaccaatgg gttagccact gccaatggat taagtaactg ttgtcgctgt 240
tgtaggtacc cagcaaagtt tgacacagcc agttgggtga atggaagcaa ctgttgtaag 300
taggcagcag ggtttgccac agctagctga gtcagagctg gtacaatttg ttgcagcaac 360
tggtgttgta ggtacctagg tgcattgccc accgcgagcg ggctaaatga aagtagttgt 420
aggtagacgg cagggttcac catggctagt tgactgagca ctggcataaa ctgttgc 477

<210> 8084

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-B11

<400> 8084

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aaaaattttt tttgtgggtt tgcccctctg gggcggttta aggggggggc cccccaattt 120
tttttttttg gggggggggt ttgttttttc ttaaattggg gggggggggg ggacaaattt 180
tttgtttttg gggggggggg ggggggggtcc cttcctcggt ggtgaaaggg ggg 233

<210> 8085

<211> 454

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-N6-B2

<400> 8085

aagaatctag aatgtacttt cttatttctg ggaagccaca aacatcatcc aaaaacttca 60
ttattgaact ataactcata agcaatctaa aagaggcacc gccaatgatg ggttgntggt 120
agaacgttgt tgggtttgtc aaagcaagtt ggttgaatgg cagcaattgt tgcagttgta 180
agaggggtgcc agcgttaggc gcagcgtgca ggtagaacgg caacaactgt tgttgtgtca 240

agaaggcaac agggctcaca tcagctagct ggctgaatgg tggtagctgt tgctgttgtc 300
aataagcagc agagttcaat gctgccagtt ggttgaatgg aagaaattgc tgggggtagg 360
cagcagctag ctgactgaat ggtagttgtt gttgcnaata agccgcagag ttcaatgcac 420
ccagttggtt gaatggaaga aactgctgct tctg 454

<210> 8086
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-N6-B4

<400> 8086

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atgtgtgtcg tcttactgca ttattacata tatagataga gagagatgga tagaggagat 120
ttcccaaatt tcatgaatca gtagtggggc ggaatggcag cggaaacccc acagggggtg 180
gtgcggtagc tgggcagctg gtactggtag agtccacca tggccggcat gttctgcgcc 240
atcatcatgg ccatgggggtt gaaaccctgg gctgccagca gctgctgctg ctgctgcac 300
aaagctggct cntacaggct gctgctggcg gcagcggcac gctcaagctg cataatcatc 360
tgcagctgct gcgcaacgga ctgcacgtcc atcatcctca tctgctgntg gcagcactgt 420
tgcc 424

<210> 8087
<211> 544
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-N6-B5

<400> 8087

atatcgagaa aaatctcaat caatatattg attattttta ggaaacacat gccgctatga 60
gggcaccatt atcgagtaca tctcatatgt aatctaaaag aggcaccacc aacgatgggt 120
tgctgccacg acaaggcagg gttcatcaaa gagaactggt tgtatggcag caattgttgc 180
tgctgtagga aggcagcgac caatgggtta gccaccgcta gtggattaag taactgttgt 240

cgctgttgta ggtacgcagc agagttcgac acagtcagtt ggttgaatgg aagtagttgt 300
 tgcaagtagg cagcaggggt tgccacagct agctgagtaa gagctggtac aatttgttgc 360
 agcaactgtt gttgcaacaa ctgntgttgc aggtatgtag gtgcattgcc catagcgagc 420
 gggctagatg aaagaagttg ttgctgttgt aggtaggcga taggggtcac catggctang 480
 ttgactgagc gcttgtagaa actgttgcaa ctgtggntgt tgggtggtatg cagnctactt 540
 tggc 544

<210> 8088

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-B6

<400> 8088

aagaatctag aaatgtactt tcttatttct gggaagccac aaacatcaga taaaaaactt 60
 tattattgaa ctataactca taagaaatct aaaagagggc accaccaatg atgggttgtt 120
 ggtagaacac tgctgggttt gtcaaagcaa gttggttgaa tggcagcaat tgttgcagtt 180
 gtaagagggt gccagcgta ggcgcaacgt gctggtagaa cggcaacaac tgtggttgtg 240
 tcaagaaggt agcagggctc acaccagcta gctggctgaa tggtagtagt tggt 294

<210> 8089

<211> 543

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-B7

<400> 8089

catcaacaaa taatcatacc ctgctcaaat tggactagag ctcaatcgct ttagaaaaac 60
 agtgtacaaa tcaggtctga aaattggcat aacgctctga acttgagacg actaaccaaa 120
 aagtgtactc atcaggacac acatttcggt gcaagacaat ccatgagaat gctctaagct 180
 acagcgctct tgcccttctt cctctgtagc ttcttcatgt agaattcaag ctctttaccc 240
 tcaaggatgt acccatcagc tcggccacac tgtccaggac gggaagaaat gcatgccagc 300
 aaccgtccac tgccaaattg ctctcaatg tgtgggtcaa gggtagctcc ctcttgcgc 360

ttctcaagct tcctcgtgac atgggttgctc tttttcgttt cctcagctgc tgcctcaacc 420
tcttgtccct cagcattatc cttctttgca gcaggggttt tcttcttcct accaatgtca 480
actccatagt gagtgaggta ccaactgctg aatggggcag catcaacttg cacaatggca 540
ctc 543

<210> 8090
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-B9

<400> 8090

gcaagaaatc cggcacgtta cacttttgct cacaacatag ctttttgcag agattcagta 60
cataaggggt cttcaaatta accataccac accataacat gggacatttg cgaaactacg 120
ggtcccgggt tcaaaaatgca acgggggtcaa tactaaaata taagcgtagg gcaatctaata 180
cttcttcctc gccctcgttc tcagcaatgt tgaagtagcg gagctcataa acctttcgggt 240
ccttgtttggc agcaaccacc ctttgccaat cccgcacgtt gggctttttt aaggacttct 300
tgggcaagta cttcaggcac ctcttggaag aggggtcccc agaggggacg gtgaccttgg 360
tcttctcgcg agagatgggt accgagtccc cgagggttgc agccttgccg ccggggacct 420
tgatgcgctc ctg 433

<210> 8091
<211> 561
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-C10

<400> 8091

agaatctgga aatgtaactt cttatttctg gttggccaca tacatcatcc aaaaaacttt 60
attattgaat tacaactaat aatcaatcta aaagagggca ccaccaatga tgtgttgggt 120
gtaggaggct gctgggtttg tcaaagcaag ttggacaaag ggcaacaatt gttgtagttg 180
taagaggggt gcgggggttag ccgcaactg cttgtagaaa ggcagcaact gttgctgtgt 240
caagaaggaa gcacgacttg ctgcagctag ctcgctaaat ggcagtagta tttgctgctg 300

caaataagca gcgggggttca gtgcggccaa ttggttaaata ggaagaagtt gttgttgctg 360
agagtaggca gtagctagct ggctaaatgg taatagttgt tgctgcaaata aagcagcagg 420
gttcagtgtg gacagtttgt tgaatggaag aaattgttgt tgctgagagt agggagaaaag 480
gtttgccaga gctacttggt tgatcacagg tagcacgagt tgctgcagct gttgtgccct 540
gatggtttgt accaatgact g 561

<210> 8Q92

<211> 333

<212> DNA

<213> Zea mays

<223> unsure at all n locations.

<223> Clone ID: LIB3061-084-Q1-N6-C12

<400> 8092

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aatgagggcc accatatccg agtcccatct catatgtaga tctaaaagat ggacactcca 120
acgatgggtt cgctgcctcg tcaagatatg gtttatcaaa aagaactggt tgcttggcag 180
caattgttgc tgctgtttga aggcacccac caatgggtca gccactgctc gtggcttaag 240
ctactgttgt cgctgctgtc gggtcccccac tcagtccgac atactcagtt ggccgaattg 300
aaccaattgc tgcaagtcgg catcacggtt cgc 333

<210> 8093

<211> 507

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-N6-C4

<400> 8093

aaatctcaat caatatattg attatttcta ggaaacacac gtcggtatga gggcaccatt 60
atcgagtaca tctcatatgt aatctaaaag aggcacctcc aacgatgggt tgctgcctcg 120
acaagacagg attcatcaaa gagaactggt tgtatggcag caattgttgc tgctgtagga 180
aggcggcgac caatgggtta gccactacca atggattaag taactgttgt cgctgttgta 240
ggtagcgagc agagttcgac agagtcagtt gggtgaatgg aagcagctgt tgcaagtagg 300

caacaggggtt tgccacagct agttgagtca gagctgggtac aatctgttgc aacaattgtt 360
 gttgcaggta tgtaggtgca ttgcccacag cgagcgggct agatgaaagc agttgttggt 420
 gttgtacgta ggcggcaggg ttcaccatgg ctagntgact gaacgttggc agaaactgtt 480
 gtanctgttg ntgttgctg gtttgca 507

<210> 8094
 <211> 418
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-084-Q1-N6-C6

<400> 8094

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 atcgtatata tatttatttc aagttctggg gcaaggaaag gaaatagcgg ctagcttata 120
 tattatcagc cgatgtgggg cgtctgggcg acgatgtcga cgaagatgcg gacacgggta 180
 gggcgataat ccgcggtcac cacggagccg acgggcagca ccacgatgtc ggcgtccggc 240
 ttgtccttga ggatcacctt cttggcgctc tccacgctca gcccgaccac ctcaggccac 300
 gacgttttgg cgccgccgcc gncgccgcc cactccgtgg agctcatggt gtcgcgaact 360
 gccggaccag ttgacgatat gatcgatggg caggtaaatac ttgcttggtg cactgctg 418

<210> 8095
 <211> 188
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-D1

<400> 8095

ctaaaaaggc ctttcttatt tcgggggaag ccacaaacat caaataaaaa actttatttt 60
 tgaactttta cccataaaaa atctaaaagg agggccccc caatgatggg ttgttggtta 120
 aacactgctg ggtttgtaaa aacaagttgg ttgaatggca acaattgttc cagttgaaaa 180
 agggggcc 188

<210> 8096

<211> 476
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-D11

<400> 8096

catacaaattc cacgggggggt ttttgtagt tccaaatttc cgaattccag ttacttcacc 60
cacagcagcg aggaagtaaa agcttatttc acgactcatc tagcaaaaca cgatggcaag 120
cctatc'ccca aaagtccatg tgtggaggag taaaccttaa cttgcagcg ttacac'caag 180
gtccgaaaca agatgacacg caaagctggc agaacctgag tagcagcagc agcagcagca 240
gcggatctag gcgtcatcga gggcaaggac accaggtaga gtcttgcctt ccaagagttc 300
caagctcgca ccgccgccgg tcgaaatgtg gctcattttg tccgccagcc cagccttttt 360
gacagcagcg acagagtcgc cgccgccgat gatggtagtg acacccttcg tggttgtaag 420
ctcagctagc ttcttgcaa tcgccttagt tccagctgca aaccggacgc gtgggt 476

<210> 8097
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-N6-D12

<400> 8097

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tttttttttt tttttttggg gttttttttt tttttttttt ttgggggggtt tttttttttt 120
tttttnnnnn nnnnnntnt tttttggggg ggggggggtt tttttttttt ttntttnaaa 180
aaccctcgg gggggggggg tttttttggg gnccccccg gtggggggtt ttccgggggg 240
gggcaaatt ttttatatg tcccccccc actaaatatt gtgtgcgggt ggggtttttt 300
ttgggggggg gggggggccc cccctccct tgtgggggtt ttgggctctt ctctcttcct 360
ttcccccccc tcttttgttt ttgtaaaggg tctccccctt aaaaaaagg ggggg 415

<210> 8098
<211> 512
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-N6-D2

<400> 8098

gaacttaaaa tatagatctc taatctttta ttactgagaa gttgcacata tcagtatgag 60
aaatttatta ttacagtata aagcataaaa aatctagaag atggtaccac caatggtggg 120
ctgatgcaat aaggtggtag gattcgtcaa agcgagttgg ctaaattggca gcaattgctg 180
ttgttgtaag aaggcgacaa tgtttgccac atcctgtggg tagaatggca gcaattgttg 240
ttgttgcaag aaggcgtaa tgtttccac aacctgtggg taaaatggca gcaattgttg 300
ttgttgcaag aaagcagcaa tgtttgcaac aacttgtaga cggaatggca gcaactgttg 360
ctgcaataag atggcagcag ggctcccgac aagttggttg aatggtagta gctgttggtg 420
ctgcaagtaa gcagcanggt tcaccccagc tagttgattg gatggaagaa attgttggtg 480
ctgaaggtaa gcagcaaggt tcgctgcaac ta 512

<210> 8099
<211> 181
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-N6-D3

<400> 8099

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gcccggggcgg ggntgggnt gggggggggg nggcccgggg gggggggggg ggagggggga 120
cttggggggg ggagggggnc cggggggcgg ggnncggggg tcccgggggg ggaggggggg 180
g 181

<210> 8100
<211> 472
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-D4

<400> 8100

agaaatgtac tttcttattt ctgggaagcc acaaacaatca tccaaaaaac ttcattattg 60

aagtataact cataagcaat ctaaaagagg caccaccaat gatgggttgt tggtagaacg 120
 ctgttgggtt tgtcaaagca agttgggtga atggcagcaa ttgttgcagt tgtaagaggg 180
 tgccagcgtt aggcgcagcg tgcaggtaga acggcaacaa ctgttgttgt gtcaagaagg 240
 caacagggct cacatcagct agctggctga atgggtgtag ctgttgctgt tgtaaataag 300
 cagcagagtt caatgctgcc agttgggtga atggaagaaa ttgctggggg taggcagcag 360
 ctagctgact gaatggtagt tgttgttgca aataagcagc agagttcaat gcagccagtt 420
 gggtgaatgg aagaaactgc tgttgctgaa agtaggcagc aaggtttcct ag 472

<210> 8101

<211> 556

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-D5

<400> 8101

agaaatgtac tttcttattt ctgggaagcc acaaacatca gataaaaaac tttattattg 60
 aactataact cataagaaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaac 120
 actgctgggt ttgtcaaagc aagttgggtg aatggcagca attgttgcag ttgtaagagg 180
 gtgccagcgt taggcgcaac gtgctggtag aacggcaaca actgtgggtg tgtcaagaag 240
 gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
 gcaggagagt tcaatgctgc tagttgggtg aatggaagaa attgctgggg gtaggcagca 360
 ggtagctggc tgaatggtag ttgttgttgt tgcaaataag aagcagagtt caatgaacct 420
 agttgggtga atggaagaaa ctgctgttgc tgagagtagg cagcaagggt tgctagcaca 480
 agttgttgta gttgttgtgc cctgatgttt tgtgccataa aatgcaccaa gagtaactgt 540
 tgtaataggg ctgatg 556

<210> 8102

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-D6

<400> 8102

agaaatgtac tttcttattt ctgggaagcc acaaacaatca gacaaaaaac tttattattg 60
 aactataact cataagaaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaat 120
 gctgttgggt ttgtcaaagc aagttgggtg aatggcagca attgttgcag ttgtaagagg 180
 gtaccagcac gctgcgccta acgctggcac 210

<210> 8103
 <211> 554
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-084-Q1-N6-D7

 <400> 8103

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 attattgaac tataactcat aagcaatcta aaagaggcac caccaatgat gggttgttgg 120
 tagaactg ttgggtttgt caaagcaagt tgggtgaatg gcagcaattg ttgcagttgt 180
 aagaggggtgc cagcgttagg catagcgtgc aggtagaacg gcaacaactg ttgttgtgtc 240
 aagaaggcag cagggctcac atcagctagc tggctgaatg gtagtagttg ttgctgctgt 300
 aaataagcag cagagttcaa tgctgctagt tgggtgaatg gaagaaattg ctgggggtag 360
 gcagcaacta gctggctgaa tggttaattgt tgttgcaa atgcagcaga gttcaatgca 420
 gccagttggt tgaatggaag aaactgatgt tgctgagagt atgcagcaag gtttgctagc 480
 acaagttgtt gtagttgttg tgccctgatg ttttgtgcc ccaaatggac caaaggtaac 540
 tgctgtaata gggc 554

<210> 8104
 <211> 553
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-084-Q1-N6-D8

 <400> 8104

gacaaaagta gggctaggta aaaccccggt ttacaaaatt tgcagaaaag ccccttcttt 60
 atcgctccga attcctctat tcggttattc ctccaccgct cgtccgagat cccgattcta 120

ctacgctgca ctgccgcgtc cacctcgggt cagttccagt gttccgcggg ctcgttccac 180
cacgccatcg ccggcggttg ctccacggcg aagaacccgc cgcacggccc gtcgtcgtct 240
aaaaggcccg tctcgtcctc ctccaccttc aggaaactcc cgtggaagaa caccocgcca 300
tggttcgcgg ccgctgcgcc ggcaacgggg ccagccggcg cgacaagaag ggtgccctgc 360
acctcggggc ccggcgccgg cgctcgcgc acgggcgggt ccgctcgtt cagcaccgcg 420
ctggagtcac tgatctcgga cgaccccacc cccgcggggg ccggcccgtc cgaggccgcc 480
ggctccgcct tgaccgacgt gaagctcgcc gctgcgtcct cgtcgtcccc tagcttcgcc 540
ttgagctccc tga 553

<210> 8105

<211> 521

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-D9

<400> 8105

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aagaaccaac agacagtcac ggacgcacct gaacaaccag ctttcaggat gcagctcagc 120
caccctgtac aggggtgcacc atgactcgtt atatgtatt atgctcctcc atccaacaca 180
caaattacac aagcatagca atgctactga gttcaacgga agaaagcggc actatgttcc 240
agcagtttat ctccccaata caggtcttgc aaagatgac ttgactctgg ttttgcagcg 300
ctaacgagat cttctaagcc aggtaaagct tccaccagct gatgtggagt cggacggata 360
ccaagtaaca gtttcccttc ggcccaccgt agaagatcct tcttctattc gttctcatct 420
atccagtctc catagatcct gctgatcttg tcagggcctt tccatttctg gatgggcctt 480
tgcagctgtc cagacctctg gctggcgatg gccgagcgt g 521

<210> 8106

<211> 555

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-E1

<400> 8106

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 cgaggtcagc ggggaactgc tgatcttctg ctctaggaga tcgaacttgg tgaggagcag 120
 aaggaagtct gcttgctcga atgtcggatg gaggggtgatg ctctcgaaca gctgcctgct 180
 ctctaccatc ttgttgacaa tggtagcgtt tgcattctcg tagaactcat cgtagtcgct 240
 agcagcaaca cagaagataa caagccttac gtcattcaaac atttgcagcc atttgcagtt 300
 cccatgcaaa cctctactgt ttatcctgat caattggtag cttagcaaag tgtcttctgc 360
 atcggggtca tcaacaccca gtccacccaa agacagctga gggaaagaga attcagttga 420
 tgctacccca tctgaggatg taatcccatc agcatagagt atatccatat ctgacagctc 480
 atattccgtt cgagatatat caacagcctt gtcaagaaaa taacttgcag ccagtggaaa 540
 gaatggcagt tcact 555

<210> 8107

<211> 508

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-E10

<400> 8107

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 gggcaccatt gtcgagtaca tctcatatgt aatctaaaag atggcacctc caacgatggg 120
 ttgctgcaag gcagggttca tcaaaaagaa ctgggttgat ggcaacaatt gttgttgctg 180
 ctgcaggaag gtagccacca atgggttagc cactgccaat ggattaagta actgttgctg 240
 ctgttgtagg taccacaaca agtttgacac aaccagttgg ttgaatggaa gcaactgttg 300
 taagtaggca acagggtttg ccacaactag ctgagtcaaa gctgggtacaa ttgttgcaa 360
 caactgttgt ttaggtacc taggtgcatt gccaccgcg agcgggctaa atgaaagtag 420
 ttgtaggtag accgcagggt tcaccatggc tagttgactg agcactggca taaactgttg 480
 caactgttgt tgttgctggt atgcaact 508

<210> 8108

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-E11

<400> 8108

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tgggaaccgg gccgggggtg ccaaaaaccc ctaaaccagg aaaaaaaaaa aacggggggc 120
caaggttttg ggaaacaaag tcaaaaaaat tccaaaaacc aataaaaaag ggaaatgggg 180
ggaaaaaaaa aaaaaagggg gggaagggtt tccgggccgg ggtttttttt tttttttttt 240
tccccgccta aataaaagga aagggaaccc tgtttggcaa ggttcgggtc tttaaggggg 300
aaaaaaattt taatttaggg gggggtttcc cccctttcaa ggggtttaa tattttcaaa 360
aacc 364

<210> 8109

<211> 259

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-N6-E12

<400> 8109

gggggggggn gaaacaaaaa gggtgagggg atntncaagt naaatagaaa aggtgaggg 60
nctggncatn taacaggtn cagaataacag gaatacataa attcatatct agaacaagct 120
ctaggtgcta aagagggggg ggggggggaa ctattagggc acagagtgtc cccgtggttg 180
actcgtactc cagggggggg ggagcttctt ggtacgcctg ttgtagcggg caaggggggg 240
gatcccgccc ccaacaaga 259

<210> 8110

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-E2

<400> 8110

gaatctggaa atgtaacttc ttattttctgg ttggccacat acatcatcca aaaaacttta 60
ttattgaatt acaactaata agcaatctaa aaggggcacc accaatgatg tgttggtgg 120
aggaggccgc tgggtctgtc aaagcaagtt ggacaaaggg caacaattgt tgtagttgta 180

agag

184

<210> 8111
<211> 480
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-E3

<400> 8111

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cacattaaaa tctggaaatg taactttctta tttctgggtg gccacataca tcatccaaaa 120
aactttatta ttgaattaca actaataagc aatctaaaag agggcaccac caatgatgtg 180
ttgttggtag gaggccgctc ggtctgtcaa agcaagttgg acaaaggga acaattgttg 240
tagttgtaag agggttgcgg ggtagccgc aaactgctgg tagaaaggca gcaactgttg 300
ctgtgtcaag aaggaagcac ggtttctgc agctagctgg ctaaattgga gtagtatttg 360
ctgctgcaaa taagcagcgg gggtcagtgc ggccaattgg ttaaattgga gaagttgttg 420
ttgctgagaa taagcagtag ctagctggct gaatggtaat aagttgttgc tgcaataag 480

<210> 8112
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-E4

<400> 8112

gcatgacagt agaacttcat gttattgaat tgaaagagca cttacatgcg acactacggc 60
agacagtaca gacagttcga cacttgaaca agggaaacta acaaacatga gacaagaaca 120
gacatgacac aagaacagac tatgcaactc cggatccatg tcgcgccag tgatgggggt 180
taagatcaat ctgaagctgg gtatatttgt tgcggtcttt gagttgggtg tacctttgat 240
tgacgaaatt gttaccctct tccattgaac cttgacttgt gtcagcgagc actccgatgt 300
tttcaaaggt tgtgttcaaa gccaaaggac cttcgtcttc tactatcatg ttgggcaata 360
ttatgcaagt tttcatgatg tcccaatgt gttcaggact ccaaccgtaa gcagggc 417

<210> 8113
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-E6

<400> 8113

ggaaagtaac ttcttatttc taggaggcca catacatcag ccaaaaaact tcattattga 60
attacaacta ataagcaatc taaaagatgg caccgccaat gatgtgttgt tggtagaagg 120
ctgctggggtt tgtcaaagca agttggacaa agggcagcaa ctgttgcaagt tgtaagaggg 180
ttgcgggggtt agccacaaac tgctggtaga acggaagcaa ttgttggtgt ttcaaaaagg 240
aagtgggggtt tgtttagct agctggccaa atggtagtag tatttgctgc tggaaataag 300
cagaggggtt cagtgcggcc aattgggttaa atggaagaaa ttgttgctgc tgagagtagg 360
cagtagctag ctggctgaat ggtagtagtt gttgttggtg taaataagca gcagggttca 420
gtgtagacag ttggttgaat ggaagaaatt gttgttgctg 460

<210> 8114
<211> 541
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-N6-E7

<400> 8114

gcagcaccaa naagcaccat ttttttcctt aggatttaac ttagaataaa gcctgacggg 60
ggtaacagca cccatcgatc cgcagtccat gctggttgat gcatgggtct gctggagccg 120
aggatgaaca cagcactaac aactgacaca gagcgacctt caatcaaaaa cacagatggg 180
caacaacaaa cagcagacga acgaagataa acactctgga ctagggtaaa caacacggta 240
gcgaacagga taacttggcc gcgcggggccc caccgctcag ttcctccagt tcccgtcgga 300
gttgccgtag ccgccgccac ggttgccacc gccgtagccg ccgccaccac caccgtagcc 360
gccgccgcca ccaccgtagc cgccgccacc gccgtagccg ccgccgccat cacggcgccc 420
gccaccgncg tagccgccgc ctccacggcc accaccgtac ccgccgccgc cgccgcctcc 480
acggccgccc cgggactggg cctcgttgac ggtgatgttg cggccgtcca gtccttgcc 540

<210> 8115
 <211> 114
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-084-Q1-N6-E8

<400> 8115

attnaaaggt ggggttaggg ggagatttgg tgtgggtgga agaggggggg gggggaaggg 60
 ggaaaagggg ggggggaagg gggggggtgg tggggtgtaa ggaggggggg gggg 114

<210> 8116
 <211> 581
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-E9

<400> 8116

atgacgtcgg ggcccttctg ctcttccagc ctgccgatga acgccaccag cgggatgttc 60
 cgggtccaccg ggagcccgac ctccgcctgc agcgccctct tgttcagcgc cttggcctcc 120
 acggccgtcg acacgtcgta cttcacggcg atgtacttgt cctgctggg gtccactcg 180
 ctgacgtcca tgccgttgac gatgccggtg atgccggtga ggcgcatgat gttgtcgagc 240
 tgcagcccc tggcgatgcc ggagatgagc tcctcggcgt agtaggggct gacggtgagg 300
 accctgtcgg cctcgaggat cccggccttc atccagttga tcttcgggag ttccacgggc 360
 ttctcgtagc cgtcgatgaa atcgaaggac gacttgaatc tctccgggag gttcagctcc 420
 gggtagtcgg agaaggcgaa ccggccctgg taggagatgt tgtggatgca gaaagcggtc 480
 tttgcgtccc tgtagatgcc gtgggactgg tagttgctct tgaggtagca cgagaagagg 540
 ccggtgtgcc agtcgttgca gacgaacacg acgtcctccc c 581

<210> 8117
 <211> 410
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-N6-F1

<400> 8117

gcagcacgcg tacgnatggg ggatcctctt tacaaaagct cttttttttt ttttttcgag 60
ataaatctca atcaatatat tgattatttc taggaaacac acgtcgggtat gagggcacca 120
ttatcgagta catctcatat gtaatctaaa agaggtacct ccaacgatgg gttgctgcct 180
cgacaagaca ggattcatca aagagaactg gttgtatggc agcaattggt gctgctgtag 240
gaaggcggcg accaatgggt tagccactac caatggatta agnaactgtn gtcgctgttg 300
taggtacgca gcagagttcg acagagtcag ttggttgaat ggaagcagct gttgcaagta 360
ggcaacangg tttgccacag ctngttgagt cagagctggg ccaatctgtt 410

<210> 8118

<211> 549

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-F10

<400> 8118

ggaacagatg gagtactttt tttcttttca tttcaattgt tcattcaggt cattgctcac 60
actgacactg ccacccatgg tgatgcgtga cacattatta ctcaatcatc gccgctaaat 120
gactcaacta gctagctagc cagcggctat actacagcac atagtttctt cagtggggga 180
caccgccggc agcagcgtag gggcatggag tcggctgctg caggccgcac atcgccgtca 240
gttgctgcgc tatctgcgcc gccaacagcc ccgcgacctg gccgctttgc ggctgctgct 300
gcaggatgga ctggaggacc aagccgaaga tcgcttggtg ccggtgctgc ggctccacct 360
gcctgagctg ctggcaacac tgctgccgca acgactggca ctgaggcgag cagtagggcg 420
tcgccgtcgg gctgcactga tgcctcagga actcgacgca ctggcccagg atcggggtgc 480
tgccaacgcc gcaggttccc tgcagctggc acgggcttgg atgcggctgt tggcacgggc 540
atgggtgtg 549

<210> 8119

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-F11

<400> 8119

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caacaacact gcactcagaa acagcccaca aaggtttgcc ctaaccagg caagagaaaa 120
ggtgaagttg ttgatcaaac aaaaacgaca gggccacacg atgacacgaa caacactaac 180
agcaatctca gccgatgaga agcttgttct tttccaaaaa gctgtatgtc ggcacttcca 240
ggttgaaggg tgccggggcc ttgcggtacc taccagaaat gtcgtagtgc gagccgtggc 300
acgggcagaa ccagccacca aagtctctg cattagggag cgggatgcag cccaggtgag 360
tgcagacccc aatgacgacc agccattcgg ggttcttgac gcgctctgca tctttctctt 420
ggtggcggag ggatgccacc tcaacactgt tggc 454

<210> 8120

<211> 474

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-N6-F2

<400> 8120

ggagtctcag gaaaaaaaaat aatctgtact gaaattacat tgtatagttc cccctttcaa 60
cccgacgagt gataatactc cagagttcat aaagtacaac gtaagacaat ttgcttcatt 120
gtacaactaa ttcaattatt ttgccaaaat ccagattgta ggccggtact ttccagaaac 180
attttattca agcgcttata ccataaaca atggggaact tcaacaagca ctaatgaaat 240
atcgagacaa acatttgaga gcagcaaaaa cactgcagaa tcgaaaaaac tcaaaccgca 300
gccttgagga aggagctaga acaggcagca acatattctg gaacaaaata atccaacagc 360
aagctataac acaccaggt gaactgcaga ttctttctga gttttgcacc cttttcccat 420
aagaccagac attccctgcc canatggtaa tgccattgag ctccattgt caaa 474

<210> 8121

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-N6-F3

<400> 8121

aacaggaatc gttaattatt tcacaagaac aaatccggat cccctttaat tattgttccg 60
gatgaacgat ccgagaaaat gcattcatct tcttgctggg cttattattc agacatatga 120
gctagctaca agctcattcc tcatgacta tgctcttcgc agttacttgg agggcatcgt 180
tccgccgccg agaatccagg ggcattcggc gaccccgctg atggtggcca ggttgactc 240
ggcctccgtg acgaggggtg cggcaaatcc cctctgcacc tcccgcgggc agcccggcag 300
gtccttttagg cggccctcca gctgcgcgtc cggggccggc gggatcgcg cgtccatgag 360
gatgctcagc gccgtgcacc ggcagtacgc cgggatgtcc gccagctccc ggcagcattt 420
ccttttcanc tccggccacg ggaggcgagg cccga 455

<210> 8122

<211> 568

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-N6-F4

<400> 8122

agaaatgtac tttcttattt ctgggaagcc acaaacatca gacaaaaaac ttattatttg 60
aactataact cataagaaat ctaaaagagg gcaccaccaa tgatgggttg ttggtagaac 120
gctgctgggt ttgtcaaagc aagttgggtg aatggcagca attgttgtag ttgtaagagg 180
gtgccagcgt taggcgcagc gtgctggtag aacggcaaca actgtgggtg tatcaagaag 240
gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
gcaggagagt tcaatgctgc cagttgggtg aatggaagaa attgctgggg gtaggcagca 360
ggtagctggc tgaatggtag ttgttgtgtg tgcaaataag aagcagagtt caatgcagct 420
aggttgggtg aatggaagaa actgctgttg ctgagagtag gcagcaaggt ttgctagcac 480
aagattgttg tagtttgttg tgccctggat gttttgtgcc nataaatgca ccaaaggta 540
acttgatgta aataggggct gatggatt 568

<210> 8123

<211> 557

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-F8

<400> 8123

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ttacagcgct gtgttgagcg cgcagctagc ctcgtagtag tagtagttat actagcgcat 120
cgatgttcag cagcctcgca attacagtag tttattcagg catgcatcgg tgggcatttg 180
gtgcttgcac tggcaaacgt aaaaaagagg taagtagcta gctctggaga cggaggtctc 240
gtctcacggc ctgaagaagg ccgggtgggg acggccggtg ccctggaagg aggtgttctt 300
gaggtgggtca ggggcttggc cgaacgagtg gcgcctcgcc agcgacagga tcttcttgct 360
ggcggcgatg aagtaggccca tcccagccac cgtggagacg atgagcgcct ggccggtggg 420
gttgatgttg gccttggccc atggcagcat ccgcacgctg gccaggggtg ggatcgcgga 480
ggcgatagtc gccaccgctg ccgccttggc tccggcgagg gtcgcctctc gggagcaacg 540
cttggcgagg gcgagct 557

<210> 8124
<211> 547
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-F9

<400> 8124

gagataaatc tcaatcaata tattgattat ttctaggaaa cacatgccgg aatgagggca 60
ccattatcga gtacatctca tatgtaatct aaaaaaggca cctccaacga tgggttgctg 120
cctcgacaag acagggttta tcaaagagaa ctgggtgtat ggcagcaatt gttgctgctg 180
taggaaggca gcgaccaatg ggtagccac tgctagtggg ttaagtaact gttgtcgctg 240
ttgtaggtac gcagcagagt tcgacatagt cagttgggtg aatggaagca gctgttgcaa 300
gtaggcagca gggtttgcca caactagctg agtcagagct ggtacaatct gttgcaacaa 360
ttgttggttg aggtatgtag gtgcattggc cacagcgagc gggctagatg aaagcagttg 420
ttgctgttgt aggtaggcgg cagggttcac catggctagt tgactgagcg ctggcagaaa 480
ctgttgacgc tgttggtgtg gctgggttgc aactacgttt gccagagcaa gtggggttga 540

tgcaagc

547

<210> 8125

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-G1

<400> 8125

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ccaaacatat ccaaaaaatt cttattgaac ttaactcata acatctaaaa ggggcaccac 120
caatgatggg ttgttggtag aaactgttg ggtttgtcaa agcaagttgg ttgaatggca. 180
gcaattgttg cagttgtaag aggggtgccag cgtaggcat agcgtgcagg tagaacggca 240
acaactgttg ttgtgtcaaa aaggcagcag ggctcacatc aactagctgg ctgaatggta 300
gtagttgttg ctgctgtaaa taagcagcaa agttcaatgc tgctagttgg ttgaatggaa 360
aaaattgctg ggggtaggca gcaactagct ggctgaatgg taattgttgt tgcaaataag 420
cagcagagtt caatgcaacc agttggttga atggg 455

<210> 8126

<211> 549

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-G10

<400> 8126

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gtcatacagg acaggaaccg ctttgacaaa aaccaacaca ttccctatct tccaagggtc 120
ttttcttcta cctcatcaaa tagtaaaaca atataattca ttcatgctat attggaggca 180
aaacccaact cccgacaaca cctgcgactt catgcctacc accagaggcg gtgggagcaa 240
gagcccaaat gatccaaccg gctgaccttg aagactgacc acttccatgc agcaccactg 300
gtgatgcagc acaaggactg accctgctga ctgggactga catgacaaac acctgagacc 360
agaccaatgg gaccgaacca aggttttggg ggacgacgcc actaccccaa ctctgactag 420
ccccaaccac taggccaagg cacaatggca cagccgccat tccaaatggg catcttcagc 480

cgaagttgaa tccacctgat ggaacagagg gctgggtccc aaatttgaag ccattctggg 540
 ggattgtcg 549

<210> 8127
 <211> 306
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-084-Q1-N6-G2

<400> 8127

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 gggggggggc ccggtggggg gggggggccc ccgacccnc cccgaacgcg ccgggggggg 120
 ggcccccccg gagggggnag gggggggggg cccccccaag gggggggggg ggagggggccc 180
 gggggggggg gcaaggagg ggtggggggg ggccggggta gggggccggg gggagggggg 240
 nccgggggag gggggnnggg gggggggggg gggccccgc cggggnnggg gaaggggggg 300
 gggggg 306

<210> 8128
 <211> 511
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-084-Q1-N6-G3

<400> 8128

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 aatggttcat tcaggtcatt gtcacactg ccacccatgg tgatgggtga cactacgtta 120
 ctcatcgccg ctaaagtagt aaactagcga gctaggtagc tagtcagcgg ctccattaca 180
 ttattactac agtacatagt ttcctcagta gtagacaccg ccggcagctg cgttgcaagg 240
 gcagggacct ggctgctgca gctgcaggcc gcacatcgcc gtcagctgct gcgctacctg 300
 ggccgccatc agcgccgcga gctcgccctg cggtgctgc tgcangaagg actgcaggac 360
 cacaccgtat gtcgcctggt accggtgcag cggtccacc tgccctgatct ggtggcagca 420
 ctgctgctgc agcgccctggc actgtggcga gccgtagggc gtcgccgccg ggctgcactg 480

gtgcctcagg aactcgacgc actggcccag g

511

<210> 8129

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-N6-G4

<400> 8129

cccaaacctc ttttttcctt ttatttttnc ccttcccttt taaggggggtc ttggggggggt 60

tgggtcccc ggccccccgg gggggggggg aacctcccgt tcccttgggc ggttaagggg 120

gggaactggt tttgcccctt tggggggggg gggggggggc cttttccctt tttccccgcg 180

cccatttttc cctcgggggg aacccccccg gggagttgtt ttgagggggg ggggccctgg 240

ttgttgggtt tgcaaccccc acattccctt ggggttggggg tttcctgggg gcccttagg 300

gcccgggggt cccccctggg gttttttttg gggggggggac tgcgggcccc cccctttgt 360

ccccggggcc cggggcaggg gtcccccccg cctgttgttg gggggaacat ggtttttggg 420

gcgcggggcc ttggggggg 439

<210> 8130

<211> 324

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-084-Q1-N6-G5

<400> 8130

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ggtttggggg cccatttttc ggggccatct catatgtaat ctaaaagagg gccctccaa 120

cgagggggtg ctgcctcnac aagacaggat tcatcaaaga gaactggttg tatggcagca 180

attgttgctg ctgtaggaag gcggccacca atgggttagc cactaccaag ggattaagta 240

actgtnggcg ctgtttagg gaccagcaa agttcgacag agtcagttgg ttgaatggaa 300

gcagctgttg caggtaggca acag 324

<210> 8131
<211> 128
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-084-Q1-N6-G6

<400> 8131

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tggggatata ggggtccggg ccccgggggg gggggggaaa aatttttttg taaatttgcg 120
ggggtaaa 128
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<210> 8132
<211> 508
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-G7

<400> 8132

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agagtcccaa actccgttgc attttcgata aggtacagtt cacgatcgca ggctgacagc 60
caccacttcc caggcaagtt atgtttcccc acgtttataa gcaaattcaa tgatatgcca 120
acagtttggt gaatgaattg agcaggagtg ccaatatcag gccctgggag tgcagctgac 180
cgagataaat catgtttgta cagcccaacc attgtttgga gatgcatctc cccgttggtc 240
atcttttacg ctggacgagt ccgttctcag tcagatattc caciaattcg tctatgaggt 300
agggccaggc accttcgtcg tcgtagttgg ataactgtgg atcggtcgtc ttcacaaatt 360
ccagcagctg ggaccatgtg tctctagata tggctttatt gtgtctgacc tgtaaaaact 420
gacaccaatg atccagaaga ggccagttcc tttcagcaaa tagcaactgc cacattccaa 480
tagaagtctc cagtgagaga gacttttg 508
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<210> 8133
<211> 487
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-G8

<400> 8133

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 acgtcaactg cttttatccg ccatccattt ccagcttctc caaggctgat ctggccctaa 180
 cccttgaaga ataaccagcc ttcacagtcc ttattcatcg tcattcttcat cctcattttc 240
 atcaattcct acccagcgag tgaaggcaaa caggaactcc ttgaatgtca ccattccggt 300
 cttgtcccag tccatttctt caaatctttt catggctata ggcccagaag agcgctctcc 360
 tgtcgtggtc tcgtttattg cttggatcat ctcactcttg ctcacatacc catctttatt 420
 cttatccaag aagacaaacg catcaaccaa ggtctcgaag gttgcctcaa gatttcctag 480
 tcccatc 487

<210> 8134

<211> 492

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-G9

<400> 8134

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 aaagaaaggg acagcaggtg cgtgcattag tcagtaggca cacgttcatt catatacagc 120
 aaacgacgac gacagcagcg tcaccacaaa gtgcgcacat cagatctaca ggggtgaaat 180
 ccagcaagta aaaaaaaaaa acacagagga gaggacgacg aggcaaacca gtggagtttt 240
 aggggtcccc ttctcgtga tgaagcccag cgggtggtctg accactgtct gtcgcgtctt 300
 gacaggcaag gtggcccacc ctcggatacc tctccttgaa tttttcctcc caatcttgca 360
 acacctccag ctcactggcg cttaggccgt ccagatcccc ggtgaggtcg tttgggtcaa 420
 atgacatcaa tgccagggcc cgggttgcat cctccccggc aaacaaggaa tatggtcctt 480
 gagggccata aa 492

<210> 8135

<211> 489

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-H11

<400> 8135

gagataaatc tcaatcaata tattgattat ttctaggaaa cacatgccgg aatgagggca 60
ccattatcga gtacatctca tatgtaatct aaaagaggca cctccaacga tgggttgctg 120
cctcgacaag acagggttta tcaaagagaa ctgggttgat ggcagcaatt gttgctgctg 180
taggaaggca gcgaccaatg ggttagccac tgctagtga ttaagtaact gttgctgctg 240
ttgtaggtac gcagcagagt tcgacatagt cagttgggtg aatggaagca gctgttgcaa 300
gtaggcagca gggtttgcca caactagctg agtcagagct ggtacaatct gttgcaacaa 360
ttgttgttgc aggtatgtag gtgcattggc cacagcgagc gggctagatg aaagcagttg 420
ttgctgttgt tggtaggcgg cagggttcac catggctagt tgactgagcg ctggcagaaa 480
ctgttgcaa 489

<210> 8136

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-H2

<400> 8136

agaaatgtac tttcttattt ctgggaagcc acaaacatca gataaaaaac ttattatttg 60
aactataact cataagaaat ctaaagagg gcaccaccaa tgatgggttg ttggtagaac 120
actgctgggt ttgtcaaagc aagttgggtg aatggcagca attgttgcag ttgtaagagg 180
gtgccagcgt taggcgcaac gtgctggtag aacggcaaca actgtgggtg tgtcaagaag 240
gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaataa 300
gcaggagagt tcaatgctgc tagttgggtg aaaggaaaaa aatgctgggg gtaggcaaca 360

<210> 8137

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-084-Q1-N6-H7

<400> 8137

gcacgccatc aaggcatcaa ctatatattt cagataatgc acccaatagc tgatgacatt 60

accagttttg cagataaatg cacccaatag ctgatgacat tactagtttt gcagataact 120
 gggcaaactg acaatcaa at aagctgacat acattaaact aaccttagca gttttgcaga 180
 taactgtcct aactaacata caccctaaga atacatata gtctagctct tcctaggtgt 240
 attttaacga acaaccttct tcacgcgtct tttggaggag agattggttc tgtagtaggc 300
 acaacctctc ttggaggaga cattggttgc actatctgtg aagatgcaag cacatcctct 360
 cctggcggag gaggcattgt gagcacaatc tctgaagatg caggcacatc atcacttgga 420
 gggataatat tgggtgctgc ctgtgatg 448

<210> 8138

<211> 494

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-085-Q1-N6-A6

<400> 8138

ggggggnggg gggngggggg gggggggggg gggggggggg gggggggggg gggggggggg 60
 gggggngggg gggggggggg gggggggggg gggggggngg gggggggngg gggggggggg 120
 ggggngggnnn gggggggggg gggggggngg gggggggngg gggggngggg gggggggggg 180
 gggggggggg gnggnggggg gggggggggg gggggggggg gggggggggg gggggggggg 240
 gggggggngg gggggggggg ggnngggggg ggggnggggg gggggggngg gggggggngg 300
 gggggggggg ggnngggggg gnnngggggg gggggggggg gggggggggg gggggggnnn 360
 nggggggggg ggnngggggg gngggggggg gggggngggg gggggggggg gggggggggg 420
 gggggggggg ggggggngg gggggggggg gggggggngg gggggggggg gggggggggg 480
 gggggngngg gggg 494

<210> 8139

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-085-Q1-N6-A8

<400> 8139

cgagataaat ctcaatcaat atattgatta tttctaggaa aacatgtcgg tttgaggga 60

ccattgtcgg gtccatctga tatgtaattt aattttggta cctccaacga tggggtgctg 120
 gggggggggg gtcatcaaag agaactgggt gtctggccgc aattgttggt gcttttgctg 180
 gaaggttggtg accaatgggt tggccactgc caatgggtta agttactgtt gtttttgctg 240
 ctggtccctt tctttttt 258

<210> 8140

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-085-Q1-N6-A9

<400> 8140

ctagaaatgt actttcttat ttctgggacg ccacaaacat catccaaaaa acttcattat 60
 tgaactataa ctcataagca atctaaaaga gggcaccacc aatgatgggt tgttggtaga 120
 aactgttggt gtttgtcaaa gcaagttggt tgaatggcag caattgttgc agttgtaaga 180
 ggggtgccagc gttaggcata gcgtgcaggt agaacggcaa caactgttgt tgtgtcaaga 240
 aggcagcagg gctcacatca gctagctggc tgaatggtag tagttgttgc tgctgtaaat 300
 aagcagcaga gttcaatgct gctagttggt tgaatggaag aaattgctgg gggtaggcag 360
 caactagctg gctgaatggc aattggtgtt gcaaataagc tgcagagttc aatgcatcca 420
 attggttgaa t 431

<210> 8141

<211> 559

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-085-Q1-N6-B10

<400> 8141

agggaaaata attatcgaac acccttggag accaatatca cattaaaatc tggaaatgta 60
 acttcttatt tctggttggc cacatacatc atccaaaaaa ctttattatt gaattacaac 120
 taataagcaa tctaaaagag ggcaccacca atgatgtggt gttggttagga ggccgctcgg 180
 tctgtcaaag caagttggac aaagggaac aattgttgta gttgtaagag ggttgcgggg 240
 ttagccgcaa actgctggta gaaaggcagc aactgttgct gtgtcaagaa ggaagcacgg 300

tttgctgcag ctagctggct aaatggtagt agtatttgct gctgcaaata agcagcgggg 360
 ttcagtgcgg ccaattgggt aaatggaaga agttgttggt gctgagagta ggcagtagct 420
 agctggctga atggtaatag ttgttgctgc aaataagcag cagggttcag tgtagacagt 480
 tggttgaatg gaagaaattg ttgttgctga gagtagggag aaaggtttgc cagagctact 540
 tggttgatca caggtagca 559

<210> 8142

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-085-Q1-N6-B12

<400> 8142

ggggggggtgg ggcggngcgg cgcggggggg ggggggggtg ggcggggggg ggggtcgggg 60
 gggggggggg gggggggggg gcgggggggg gggggggggg gggggggggg gggggggggg 120
 gggggggggg ggggtggggg cggggggtgc gggcgggcgg ggggggcggg gggggggcgt 180
 gggggggggg gggggcgggc gggggggggg gggggggggg gggggcgggg ggggggggga 240
 gggggggggg gggggggggg ggaggggggg gggggggggg gggggggggg ggggggggag 300
 gggggcgggg gaggggggcg ggggagggag gggggggggg gggggggggg gggggggggg 360
 tggggggggg gggggggggg gggggggggg gggggggg 398

<210> 8143

<211> 661

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-085-Q1-N6-B2

<400> 8143

gggggggggg gggggggggg gggggggngg gggggggggg ggggggnngg ggggnngggg 60
 ggggnngnnn nnnnnnnnnn nnnnnnnnnn gggggggggg gggggggggg gggggnnnnn 120
 gnnnnggggg gnnnggngnn nngggngngg gggggggggg gggggggngg gggggggngn 180
 ggggggnggg gggggggggg gggggggggg gggggggggg gggggggggg nnnngggngg 240

nggggggggg gngggggggg nggggggggg gggggggggg gggggggggg gggggggggg 300
 gggggggggg ggggngggg gggggggggg gggngggggg gnnngggggg gggggggggg 360
 gggggggggg gggggggggg gggggggggg gggggngggg gggggggggg ggggggggng 420
 gggggggggg gggggggggn gggggggggg gggngggggg gnnngggggg gggggggggg 480
 ggggngggg gggnnngggg ggggngggg gggggggggg gggggggggg nnnngggggg 540
 ggggngggg gggggggggg gggggggggg ngggggggg gggggggggn nngggggggg 600
 gggggggggg ggggggggng gggggggggg gggngggggg gggggggggn ngggggggg 660
 g 661

<210> 8144
 <211> 295
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-085-Q1-N6-B6

<400> 8144

atcgagataa atctcaatca atatattgat tatttctagg aaacacatgt cggtntgagg 60
 gcaccattgt cgggtacatc tcatatgtaa tctaaaagag gcaccttcaa cttgggttgc 120
 tgcaaggcag ggtttattaa agagaactgg ttgtatggca gcaattgttg ttcttgctgc 180
 aggaagggtg cgaccaatgg gttagccact gccaatgggt tatgtaactg ttgtggctgt 240
 tgttggtgcg catcagtgtt tgtcacagcc tgtttgtttg aatggtagca actgc 295

<210> 8145
 <211> 491
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-085-Q1-N6-B7

<400> 8145

gaagttgcat ttaaaattgc tgttattgag aaattgttgt ccatagttct caactttcac 60
 gtccaatgat taaacgaaca cgacggcttt attttttttt catggcagca aacaccaaaa 120
 catttttttg gagccgcctg aaggctttgc cctcggcatc acgcccaccc tgcgagtaga 180

aagcgcggcg cctgatgctc tcttcaatcg gggcactgcc acccttatct gttccaaata 240
 tgctcttctt ttcattctcc aagaagttct tccctttgaa ctggtttgca ttcacagttg 300
 ttgccttttt agcattgtcg tctgcagctt tcttgagcct cttccatctc tgctcctcgt 360
 ggacctcacc gtcagcctgc ctttgggtgca gacgagctaa cctttcctct tttgacatat 420
 ggtggacacc accgcctttt tggttcattg taagaccact attactgtca tggtcgtctc 480
 tttgccttgt c 491

<210> 8146
 <211> 133
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-085-Q1-N6-B8

<400> 8146

gggggggggg gaaaaggttg tatggggggg ttttttttat atatattttt ttaaaaaatt 60
 aaatttaaaa tttatttttt tttttttatg tgaaaatttt aaatttcatt tttatatgta 120
 ttaaaaaata tta 133

<210> 8147
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-085-Q1-N6-B9

<400> 8147

cgagataaat ctcaatcaat atattgatta tttttaggaa acacatgccg ctatgagggc 60
 accattatcg agtccatctc atatgtaatc taaaagatgg caccaccaac gatggggtgc 120
 tgccacgaca aggcagggtt catcaaagag aactgggtgt atggcagcaa ttggtgctgc 180
 tgtaggaagg cagcgaccaa tgggttagcc accgctagtg gattaagtaa ctggtgtcgc 240
 tgttgtaggt acgcagcaaa gttcgacaca gtcagttggt tgaatggaag cctcctccct 300
 tcttcttctt cttctctt 318

<210> 8148
 <211> 256
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-085-Q1-N6-C10

<400> 8148

gtggtgtgtg gggggggggg gggagtgtgg gggggggggg ggttgggttg ggtgtttttt 60
tnnnnttttg gggggggggg ggggggtttt taggaattgg gggggggggg ntggtgtaaa 120
aaaagggggg gggggggggg ttgggggggg gggggggggg ggggggggga ttcgggtttg 180
ggtttggggg gggggccggg gttttgtttg gggggggggg ggggaggtgg ggggggggcg 240
ggggttgggg ggttcc 256

<210> 8149

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-085-Q1-N6-C3

<400> 8149

aagaaaactc tgcaacaata aatgtgaaaa caatacatct cactgtcgtc atagtcttgg 60
tgactctttc tgaacctccg tgtttgacag gtatctctta cgacttttat atttctcaag 120
accaccttaa tgatagaaac ctaatctttt ccagaaggaa ccgagtcggc agaggaaggt 180
gacaatggga cagcaataaa aactgtgaa gcaccaggtg actgttgaga tactcttact 240
tctgccaggc ttaaagtaag atggagtgat gggaccaggt ctgttgact gctaggcaca 300
gacaatggta ggattatcta gcagatgcat aatccgctaa gntcagtgaa cagtccccag 360
aacaagtttt ctctttgaca ttttacttga ttcaaattcg aaaagatgct ggtgaccac 420
gccggnataa gtggnntttc ctagccaaca aaatgt 456

<210> 8150

<211> 530

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-085-Q1-N6-C4

<400> 8150

ggtgacaaat gaatttcacg cttaatatataa gaacaacagt agactgggca acatctgac 60
 agatcatagt tgctgaatgc agcgacaaaa ctgggttacia agagtgtcag caaacaaact 120
 ttaaccacaa ctctgaactc aacactttga taagagcata tatacaaaaca aaagccaaag 180
 gttctcagaa gaaacagcac cctaccaagt aaatttactg ccaggcccgt ctaaacaacc 240
 ctcccctatc acggtggcag cagtcaacag ctctacaata gatctacctg tacacatatg 300
 caagcaactc ccatgggtatc tgagacatca atctccacac ctgcagaccc atntcacaat 360
 ctctctggcac tgccagactc cacatcgttt agagtatctc ttaggggtgat gatcccaccg 420
 tgcccaggaa tatcgactgt ttcgatttcg gttgggtctca cgctgtatga gttcgcattt 480
 ctgctgttcc cctcctcggc taaccggaac gcgtatgcgt gagggcccaa 530

<210> 8151

<211> 479

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-085-Q1-N6-C6

<400> 8151

cgtgggaagc cacaaacatc agacaaaaaa ctttattatt gaactataac tcataagaaa 60
 tgtaaaagag ggcaccacca atgatgggtt gttggtagaa cactgctagg tttgtcaaag 120
 caagttgggtt gaatggcagc aatgggttgca gttgtcagag ggtgccagcg ttaggcgcaa 180
 cgtgctggta gaacggcaac aactgtgggtt ggggtcaagaa ggtagcaggg ctacaccag 240
 ctagctggct gaatggtagt agttgttgct gctgtaaata agcaggagag ttcaatgctg 300
 ccagttgggtt gaatggaaga aattgttggg ggtaggcaac atgtagctgg ctgaatggta 360
 gttgttggtt ttgcaaataa gaagcacagt tcaatgcacc tagttggttg aatggaagaa 420
 actgctagtg ctgagagtag gcagcaaggt ttgctagccc aacaactaca acaacttgt 479

<210> 8152

<211> 538

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-085-Q1-N6-C7

<400> 8152

cacattagaa tctggaaatg taacttctta tttctggttg gccacatata tcatccaaaa 60
 actttattat tgaattacaa ctaataagca atctaaaaga gggcaccacc aatgatgtgt 120
 tgttggtagg aggctgctgg gtttgtcaaa gcaagttgga caaagggcaa caattgttgt 180
 agttgtaaga gggttgcggg gttagccgca aactgctggt agaaaggcag caactgttgc 240
 tgtgtcaaga aggaagcacg gcttgctgca gctagctggc taaatggtag taatatttgc 300
 tgctgcaaat aagcagcgag gttcagtgcg gccaatgggt taaatggaag aagttgttgt 360
 tgatgagagt aggcagtagc tagctggctg aatggtaata gttgttgctg caaataagca 420
 gcagggttca gtgtagatag ttggttgaat ggaagaaatt gttgttgctg atagtaggga 480
 gaaaggtttg ccagagctac ttggttgatc acaggtagca cgagttgctg cagctgcf 538

<210> 8153

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-085-Q1-N6-C8

<400> 8153

agaattctaga aatgtacttt cttatttctg ggaagccaca aacatcagac aaaaaacttt 60
 attattgaac tataactcat aagaaatcta aaagagggca ccaccaatga tgggttggtg 120
 gtagaacgct gctggggttg tcaaagcaag ttggttgaat ggcagcaatt gttgcagttg 180
 taagaggggtg ccagcgttag gcgcagcgtg ctggtagaac ggcaacaact gtggttgtat 240
 caagaaggta gcagggtca caccaactag ctggctgaat ggtagtagtt gttgctgctg 300
 taaataagca ggagagttca atgctgccag ttggttgaat ggaagaaatt gctgggggta 360
 ggcagcaggt agctggctga atggtagttg ttgttggtgc aaataaaaag cagagttcaa 420
 tgcacctagt tggttgaatg gaagaaactg ctgttgc 457

<210> 8154

<211> 512

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-085-Q1-N6-C9

<400> 8154

gatcaaaaatt ttcctcaatt gccattaaag gcgccaacag agtacattgt tcgtccattc 60
agagatcagt tcacacacac cccagacac agagaggggg gggagcttta tttgtttcg 120
gtctacacgg ggggtactcag ccaactgtaac agttcagtca cgggtactcag ccatgaacgc 180
cttatggaaa gccttgaagc ggggtgatcac cgcggggatt ttattttcct gcggcaggat 240
cgtgcatttg acgtgccatg ttccaggaac ttggccaaat ccagatccag gaaccacaac 300
aattccagtt gattcaagga gacggagcgc ataaaatgca tcaggtgctt tcttggcagc 360
tttagcagcc tcaattgcct tatgtggcaa atggatctga gggaaaaggt acattgctcc 420
ttcagccttg ttacatgaaa atccctcaag cgtgttgaat gcattttcca gtgcctttgc 480
acggcgagct aaagactgaa ggattccatc tt 512

<210> 8155
<211> 490
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-085-Q1-N6-D10

<400> 8155

ataattacga tttgatgttt tcaattatit atatgatgaa catagtccag aaatatatcg 60
agataaatct caatcaatat attgattatt tctaggaaac acacgtcggg atgagggcac 120
cattatcgag tacatctcat atgtaatcta aaagatggca cctccaacga tgggttgctg 180
cctcgacaag acaggattca tcaaagagaa ctggttgat ggcagcaatt gttgctgctg 240
tnggaaggcg gcgaccaatg ggtagccac taccaatgga ttaagtaact gttgtcgctg 300
ttgtaggtac gcagcagagt tcgacagagt cagttgggtg aatggaagca gctgttgcaa 360
gtaggcaaca gggtttgcca cagctagttg agtcagagct ggtacaatct gttgcaacaa 420
ttgttgttgc aggtttgtag gtgcattgcc cacagcgagc gggcttgatg aaagcagttg 480
ttgctggtgc 490

<210> 8156
<211> 494
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-085-Q1-N6-D11

<400> 8156

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gggggggggg ggggggggggg ggggggggggg ggggggggggg ggggggggggg ggggggggggg 120
gggggggggg ggggggggggg ggggggggggg ggggggggggg gggggggngn ggggggggggg 180
gggggggggg ggggggggggn ngggggggggg ggnnggggggg ggggggggggg ggggggggggg 240
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gggggggggg ggggnnggggg ggggggggggg ggggggggggg ggggggggggg ggggggggggg 420
gggggggggg ggnnggggggg ggnnngggggg ggggggggggg ggggggggggg nnggggggggg 480
nnnggggggg gggg 494

<210> 8157
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-085-Q1-N6-D4

<400> 8157

gcagcaccaa gaagcaccat ttttttcctt aggatttaac ttagaataaa gcctgacggg 60
ggtaacagca cccatcgatc cgcagtccat gctgggtgat gcatggggtt ggtggggccg 120
aggatgaaca cagcacttac aactgacaca gagcgacctt taatcaaaaa cacagatggg 180
caacaacaaa cacgatgaat gatgccacgg tgagggtggtta ggtcgggctag gcgaccggcg 240
gccagtgtgc ggggtccttg gtcgtgtcga gggacgtcgg cggtttccac tgccagaacg 300
caaccgcggg cgggtagctg gggtagggga cgaacttttc agcctgagca aa 352

<210> 8158
<211> 351
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-085-Q1-N6-D6

<400> 8158

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ttgggggggg gggataaagg gggggggtaa tagggggaaa ggggttttcg gggggaaaat 120
ggttttccgc taaaatttcg aaaaaaaaaag gggggggggg gtaaaagggg aaaagggggg 180
gggggtaaag gggggggaaa aaaaaaaaaa aagggggggg gtgaaggggg ggttttcgaa 240
ggggaaaagg ggggggcccc gtgtttttta agaatcggga aacggggggg ggggggggtt 300
tggttttttg ggggccgggg gggttttttt tttctccng ggggcgggaa a 351

<210> 8159

<211> 124

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-085-Q1-N6-D8

<400> 8159

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gacttttact cataagaaat ttaaagggg gggcccccaa tgggtgggtg ttgggccggg 120
cccc 124

<210> 8160

<211> 522

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-085-Q1-N6-D9

<400> 8160

ggcggaacag attacttgca ttgccattgg gtctctaata tattacagat taataataac 60
aattatttat caaaattgat ctgatacgaa cagtctttgc tgcacctttc cactgattgg 120
gtggcttaat aaaaacttgg accctgctat gtcaatagcc tgacttaatg aactggcaag 180
ggtcatactc aattactcat agctaaacca agggcgctac atcacatgat gtacataaga 240
aactcaaaaa ccttgacacg gggaggggtat atcggagcgt cagcaccctt ttcttgatag 300
atgctaccgc agcagccctc caaactggag atgacggggc gacaaaaatc agaagtgcta 360
tcccacgacg aaaatcagct agccgttaat ttgggggaag atttgtgata tcttcatgaa 420

aacatccatg acctccttgg catTTttggta ttttacaatg ttaagagggt tctgcgagca 480
 gtccatgatg gctgtctgta tttttggatt ctggaatgca ac 522

<210> 8161
 <211> 627
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-085-Q1-N6-E12

<400> 8161

ggggggcccc cgccccccgg gggggggggg gggggggggcg gggggggggg cggcggngnc 60
 gcgggggggtg tttttgtttt gttcctcccc ccccncccc ccccccttgg gggggcccg 120
 cggggggggcc cccccggggg gggggggggc tccggcccc cccctcttc tttccccggg 180
 gggggggggg ggggggnggg ggggggngcc gggggggggg gggggggggg gggggggggg 240
 gggggggggg gggggggggg gggggggggg ggggggggtg ggcggggggg gggggggggg 300
 gcgggggggc ggggggcggg cgggcggggg gggggtgcgc ggggcggggt ggcggggggg 360
 gggcgggggg gggggggggg ggggcggggg cggggggggc ggtcgggggg tgggtggggg 420
 gggggggggg gggggggggg gggggggggg gggggggggg gggggggggc gggggtgggg 480
 gcgggggggg gggggngggc gggggggggg gcgggggcg cggggggggg ggnngggggg 540
 gggggggcg gggggggggg gggggggggg ggggcggggg gcgggggggg ggggtgcggg 600
 ggcggggggc gggcgggggg gggggcg 627

<210> 8162
 <211> 203
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-085-Q1-N6-E8

<400> 8162

ggaaatgtgc ttttttattt ctggggagcc acaaacctcg gacaaaaaac tttttttttg 60
 gactgttact ttttttttat attttaaga gggcaccacc aatgttgggg ggggtgggtga 120
 atgctggtgg gtttggttaa gcaagctggt tgaatgggaa aaattgttgc ctgtggcaga 180
 ggggtgcccc ggtagggcca ccg 203

<210> 8163
<211> 248
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-085-Q1-N6-F5

<400> 8163

aactagggac atgttggnac aagaccagcg gtttgaatta caccgaaaa tttttttttt 60
catttccgaa gggcnnatat cacttttttt gtgggggagg gggntggtcc cagnaaaaca 120
ctncgacaca tgcctcggca ggggacacac cattccccag agatgtattc tctccgaaga 180
tcggcgggcg gggagatnac ttanggagct tgcttttggt gaggtcccct agctggaaca 240
tgatggggg 248

<210> 8164
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-085-Q1-N6-F9

<400> 8164

tttttttttt tttaattttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttaattt tttttttttt tttttttttt tttttttggg tttttttttt 120
tttttttt 127

<210> 8165
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-085-Q1-N6-G8

<400> 8165

gggggggggn nggggggggn nggggggggg gggggggggg gggngggggg gggggggggg 60
gngggggggg gggggggggg ggggggnngg gggggggggg gggggggggg gggggggggg 120
gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 180

ggggngnggg gnggggnggg gggggggggg gggggggggg ggggggggng gggggggggg 240
 gggggggggg gggggggggg ggggggnggg gggggggggg gggggggggg ggggggggng 300
 nngggggggg ggnngggggg gggggggggg ggggggnggg gggggggggg gggggggggg 360
 ggggggnggg gggggggggg gggggggggg gggggggggg ggggngnggg gggggggggg 420
 gggggngggg gggggggggg gggggggggg 450

<210> 8166
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-085-Q1-N6-G9

<400> 8166
 gggggggggg ggggggggng gggggggggg gggggggggg gggggggggg gggggggggg 60
 gggggggggg nggggggggn gggggggggg gggggggggg gggggggggg ggggggnggg 120
 gggggggggg ggggggggng gggggggngg gggggggggg gggggggggg gggggggggg 180
 gggggggggg ggggggaggn gngggggggg gggggggggg gggggagggg ggggnggggg 240
 gggggggggg ggggggggng gggggggngg gggggggggg gggggggggn ggggnggggg 300
 gngggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 360
 gggggggggg gggggggggg ggg 383

<210> 8167
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-085-Q1-N6-H10

<400> 8167
 gggggggggg gcgggggggg gggggggggg gngggggggg gggggggggg gggggggggg 60
 ggggggcggn gggggggggg ggggggcggg ggggggggcg gggggggggg ggggcggggg 120
 gggggggggg ggtggtggg gggggggggg gggggggggg ggggnggggg gggggggggg 180
 gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg ggctgggggg 240

ggggtncggg gggggggggg gggctggtgg gggggggggg gggggggggg gggggggggg 300
 gggggggggg ggcggggggg gggggggggg gggggggngg gggggggggg gggtaggggg 360
 gggggggggg ggcgggtggg gggggggggg cggggtgcgg gggggggngg ngggggtggg 420
 gggggcgggt gggggg 436

<210> 8168
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-085-Q1-N6-H3

 <400> 8168

gggggggggg ggggggggng gggggggggg gggggggngg gggggggggg gggggggggg 60
 gggngggggg ggggngggg gggggggggg gggggggggg gggggggggg gggggggggg 120
 gggggggggg gggggggggg gtggggngg gggggggggt gggggggggg gggtaggggg 180
 gggggggggg gggggggggg gngggggggt gggggggngg gggggggngg gggggggggg 240
 gggggggggg gggggggggg gggggggggg gggggggggg gggngggggg gggggggggg 300
 gggggg 306

<210> 8169
 <211> 467
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-085-Q1-N6-H7

 <400> 8169

gggggngggg gggggggggg gggggggggg gggggngggg gggggggggg gggggggggg 60
 gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 120
 ggggngggg ngggggggg ngngggggg gggggggggg gggggggggg gngggggggg 180
 gggggggggg gggggggggg gggggggggg gggggggngg ggggngggg gggggggggg 240
 gggggggggg nggngggggg ggggggggng ngggggggg gggggggggg gggggggggg 300
 gggggggggg gggggggagg nnggngggg gggggggggg gggggngggg ggggggagg 360

gggggggggg gggggggggg gggggggggg gggggggggg nggggggagg gggggggggn 420

gggggggggg gggggggggg gagggggggg gggggggggg gggggggg 467

<210> 8170
<211> 553
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-087-Q1-K6-A1

<400> 8170

gcaacatagn aaagcacaat agtgtaccaa caatggcagc caaaaatttt gcttccttat 60
gctccttggt ctttctgcaa gtgctgtac ggcgaccatt ttcccgcaat gctcgcaagc 120
tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg tntgtgaaaa 180
cccaattctt caaccctaca ggatccaaca ggcaatcgca gctggcatct tacctttatc 240
acccttggtc ctccaacaat catcagccct attacaacag ttncctttgg tgcatttatt 300
ggcacaaaac attagggcac aacaactaca acaacttggt ctagataacc ttgctgccta 360
ctctcagcaa cagcagtttc ttccattcaa ccaactaggt tcattgaact ctgcttctta 420
tttgcaacaa caacaactac cattcagcca gctacctgct gctaccccc agcaatttct 480
tccattcaac caactagcag cattgaactc tctgtgttat ttacagcagc aacaactact 540
accattcagc cag 553

<210> 8171
<211> 541
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-087-Q1-K6-A10

<400> 8171

cacgccgtcc ggngacattc agnaaacaca ccaagcgaac acattagcaa caacctaaca 60
acaatggcta ccaagatatt atccctcctt gcgcttcttg cgctttttgc gagcgcaaca 120
aatgcgttca ttattccaca atgctcactt gctccaagtt ccattattac acagttcctc 180
ccaccagtta cttcaatggg cttcgaacac ccagctgtgc aagcctatag gctacaacaa 240

gcaattgcgg cgagcgtctt acaacaacca atttcccagt tgcaacaaca atccttggca 300
catctaacaa tacaaccat cgcaacgcaa cagcaacaac aattcctacc agcactgagc 360
cacctagcca tggatgaacc tgccgcctac ttgcaacagc agttgcttgc atcaaaccga 420
cttgctctgg caaacgtagt tgcaaaccag ccacaacaac agctgcaaca gtttctgcca 480
gcgctcagtc aactagccat ggtgaaccct gccnctacc tacaacagca acaactgctt 540
t 541

<210> 8172

<211> 545

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-A11

<400> 8172

ctctgatcaa ccaatagctc tggcaaacct ttctccctac tctcagcaac aacaatttct 60
tccattcaac caactgtcta cactgaaccc tgetgcttat ttgcagcaac aactattacc 120
atthagccag ctagctactg cctactctca gcaacaacaa cttcttccat ttaaccaatt 180
ggccgcactg aaccccgctg cttatttgca gcagcaaata ctactaccat ttagccagct 240
agctgcagca aaccgtgctt cttcttgac acagcaacag ttgctgcctt tctaccagca 300
gtttgctggc aaccccgcaa ccctcttaca actacaacaa ttgttgccct ttgtccaact 360
tgctttgaca gaccagcgg cctcctacca acaacacatc attnggtggt gncctctttt 420
tagattgctt attagttgta attcaataat aaagtttttt ggatgatgta tgtggccaac 480
cagaaataag aagttacatt tccagattct aatgtgatat tggctctcaa gggagttcga 540
taaaa 545

<210> 8173

<211> 563

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-A2

<400> 8173

anaagatgtg gtcattggctg taatgggtta gcaggtacat catccacact tatcatttcc 60
 tttgtttttt gtttgatcaa tttttaaaat ttctttatca gtttgattgg tatccacttg 120
 catccgctca cagtttgatt cgtgttcgtt ggatggcgac gtctcaggtt tcgtacagtt 180
 cactaaattt attttgctca attgtaaggg aattgtgtcc tatataagct cgcgctcgtg 240
 tcgcacccgg atcaccctt cttcctgcaa gtctggttca attaaattt ttttgttttg 300
 tcatgttgca aagtacttgg cgagctatga tatgtcatta ccttagtgaa aaaacggttt 360
 ctaatatatc agtatttttt agctgtgcag atcatgtcat catatagatg ttgcaaacad 420
 tataaaatag aggatccatt tgaactcttg agattgtgga gtgcatgcct agcctaaata 480
 taaaacttag cgttggcatt agtaatttca agtgttatct gaataaattg tttcatactt 540
 gaattgtttt cctgtgttta ttt 563

<210> 8174

<211> 575

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-A3

<400> 8174

cggtcgggcc tcccgggtcg cccagcgtcc ggcaccatca ttttcattgg taagatagat 60
 tcgggttgcg tactgcatac ataattttgc ctatcaaggt agatttgcca gagcagtact 120
 caggatcgtc ttaattctacc ttgaagttac cttaccatca tttgcatggt attcgatggt 180
 catgttaagc ctgttctagg gagaaagatt aactggatga agacagggat cgttgagagt 240
 gatctgggtc taccagctgg gccacattat gtttaaggaac tcacttatgg cccatataaa 300
 ggggttgagt tggatggtgt ccttcgcgca aaagcctttc tntaattgga attggatacg 360
 gcatgggtgt ctacgaatgg gatccttcaa cagattactt caccaggccg tgtaatatgg 420
 atgcaacgaa cggttctctg caaacaaacg ctctcaataa agagaggctt gcaaggctga 480
 agttcggatt gcctgtggac tcgagctccc tgttatagtt tttgtcgggc gttttgaaga 540
 aaaaaaggt ctgacattct tattgcagcc attcc 575

<210> 8175

<211> 550
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-087-Q1-K6-A4

<400> 8175

gcaacatacc tttatcgccc ttgttgtttc aacaatcgcc agccctatct ttggtgcagt 60
cattggtaca aaccatcagg gcacaacagc tgcagcaact cgtgctacct ctgatcaacc 120
aagtagctct ggcaaaccct tctccctact ctcagcaaca acaatttctt ccattcaacc 180
aactgtctac actgaaccct gctgcttatt tgcagcaaca actattacca tttagccagc 240
tagctactgc ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga 300
accccgctgc ttatttgtag cagcaaatac tactaccatt tagccagcta gctgcagcaa 360
accgtgcttc cttcttgaca cagcaacagt tgctgccttt ctaccagcag tttgaggcta 420
accccgcaac cctcttataa ctacaacaat tgttgccctt tgtccaactt gctttgacag 480
acccagcggc ctctaccaa caacacatca ttnggtggcg ccctctttta gattgcttat 540
tagttgtaat 550

<210> 8176
<211> 569
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-A5

<400> 8176

gcacaatagt gtaccaacaa tggcagccaa aatattttgc ttccttatgc tccttggctc 60
ttctgcaagt gttgctaccg caaccatttt cccacaatgc tcacaagctc ctatagcttc 120
ccttcttccc cctacacct caccagcggg gtcttcaatg tgtgaaacct ataattgttc 180
aaccttacag gatccaacag gcaatcgcaa caggcatctt accattatca cccttgttcc 240
tccaacaacc gtcagcccta ttacagcagt tacctttggg ccatttgggt gcacaaaaca 300
tcagggcaca acaactataa caacttgctg tagcaaacct tgctgcatac tctcagcaac 360
atcagtttct tcatttcaac caactggctg cattgaacta tgctgcttat ttgcaacaac 420
aattaccatt cagccagcta gttgctgcct acccccagca atttcttcca ttcaaccaac 480

tagcagcatt gaactctgct gcttatttac agcagcaaca actactacca ttcagccagc 540
tagctgatgt gagccctgct gccttcttg 569

<210> 8177
<211> 568
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-A7

<400> 8177

gcgccgcccgt caccgtcgtc gctcgcgctc tccgcccgga tcggagcgag agtaggggcg 60
tgtcggcgggt gaaagcgact gcgtcagcca tggcggacga ggagcattcg gagaggagag 120
aggaggcctc cgagcttgcc cccttcgacc cgaccaagaa gaagaaaaag aagaagggtg 180
tcatccaaga accttctgat gaagtggaca agcttgacga gaagacagaa aactggcag 240
tcgcagaacc cgctgaactt aacttcaactg gaatgaagaa gaaaaagaag aagccgggtg 300
atcttgattc aactcttgat gagcttggag atggggagga cactcaagat gatcaagctg 360
tagaggaaca aggggaaggc attgtgctgg gaagtgtccc tacataccct tgggagggaa 420
ctgatcggga ttataaatat gaagagctgc tggacagggt gttcaacatt ctacgtgaga 480
acaaccaga tcttgctggg gataggcgta ggaccgttat gaggccacca caagttctta 540
gggaggggaac aaagaagaca gtttttgt 568

<210> 8178
<211> 480
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-A8

<400> 8178

aaccatanag gcggcaacaa gcaancgcag ctagcaacan accnnnancg ccnngggggg 60
ggcgacaanc accagcccta tcnggggggc aggcattggt acaaaccatc agggcacaac 120
agctgcagca actcgtgcta cctgtgatca accaagtagc tctggcaaac ctttctccct 180
actctcagca acaacaattt cttccattca accaactgtc tacactgaac cctgctgctt 240

atttgcagca acaactatta ccatttagcc agctagctac tgcctactct cagcaacaac 300
aactttcttc atttaaccaa ttggccgcac tgaaccccg cgtttatttg cagcagcaaa 360
tactactgcc atttagcgag ctagctgcag caagtcgtgc ttccttcttg acacagcaac 420
agttgctgcc tttctacaag caggttgagg ctaaccccg aaccctctta caactacaac 480

<210> 8179

<211> 306

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-A9

<400> 8179

tttttatttt tttttttttt tnnnnntttt tttttttttt tttttttttt tttttgggga 60
aaaaactttt tttttggacc tttacccta agaatataa aagaggggccc ccccatgtt 120
gtggttggtc attgaactct gctttttttt gggggcaaca ncggcttccg ttcagccagg 180
tgcctgctgc cttccctcc caatttcttt cgttctcccc ccttgccgcc ttcaactttc 240
ctgcttggtt cccgggggtc ggctcctccc acttccgcag cttgttgggg tgggccctgc 300
tccctt 306

<210> 8180

<211> 570

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-B10

<400> 8180

attttgagca ttcagaacac accaagcgaa gcgcactagc aacgacctaa caacaatggc 60
taccaagata ttagccctcc ttgcgttct tgccttttt gtgagcgcaa caaatgcgtt 120
cattattcca caatgctcac ttgctcctag tgccattatt ccacagttcc tcccaccagt 180
tacttcaatg ggcttogaac acctagctgt gcaagccaac atgcaacaac aagcgcttgc 240
ggcgagcgtc ttacaacaac caattgccca attgcaacaa caatccttgc cacatctaac 300
aatacaagcc atcacaacgc aacagcaaca acagttccta ccagcactga gccacctagc 360
catggtgaac cctgcgcct acttgcaaga gcagctgctt gcatccaacc cacttgctct 420

ggcgaacgta gttgcaaacc agcaacaaca acagctacaa cagtttctgc caacgctcag 480
tcaactagcc atggtaaccc ttgccgctta cttcaacaac caccacttgt tttatttaac 540
cgggttgctt ggggcaattg aactaccttc 570

<210> 8181

<211> 586

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-B11

<400> 8181

accccggtcg acccagcgtc ctttcanaaa catatttagc gaacgcacta gcaacgacct 60
aacaacaatg gctaccaaga tattatccct ctttgcgctt cttgcccttt ttgtgagcgc 120
aacaaatgcg ttcattattc cacaatgctc acttgctcct agtgccatta ttccacagtt 180
cctccctcca gttacttcaa tgggcttcga acaccagct gtgcaagcct acaggctaca 240
acaagcgctt gcggcgagcg tcttacaaca accaattgcc caattacaac aacaatcctt 300
ggcacatcta accatacaaa ccatcgcaac gcaacagcaa caacaatttc taccagcact 360
gagccaacta gctgtggtga accctgtcgc ctacttttat tatttggtgc ttgcatccaa 420
cccacttgct ctggcaaaca tagttgcata ccaacaacaa caacaattgc aacagtttct 480
accagcgctc agtcaactag ccatggtgaa ccttgccgcc tacctacaac agcaacaact 540
gatttcatct agccctctcg ctgtggttaa tgcacctaca tacctg 586

<210> 8182

<211> 570

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-B2

<400> 8182

cgcgaactag ncaacatagn aaagcacaat agtgtaccaa caatggcagc caaaatattt 60
tgcttcctta tgctccttgg tctttctgca agtgctgcta ccgcaaccat tttcccacaa 120
tgctcacaag ctctatagc ttcctttctt ccccatacc tctcaccagc ggtgtcttca 180

gtatgtgaaa acccaattct tcaaccctac aggatccaac aggcaatcgc agcaggcatc 240
 ttacctttat cacccttggt cctccaacaa ccgtcagccc tattacagca gttacctttg 300
 gtgcatttgt tggcacaaaa catcaaggca caacaactac aacaacttgt gctaggaaac 360
 cttgctgcct actctcagca acagcagttt cttccattca accaactggc tgcattgaac 420
 tctgctgctt atttgcaaca acaactacca ttcagtcagc tagctgctgc ctacccccag 480
 caattttctt cattcaacca actggcagca ttgaactctg ctgcttattt acaacagcaa 540
 cagctaccac cattcagcca gctagctgat 570

<210> 8183

<211> 549

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-B4

<400> 8183

cacgcgtccg cgcgngggac ttaagattga agggatcttt aggattaatg cagaaaaagc 60
 caggaagtct atgtgagggc ccaattaaac agtggagtgg ttccaaatga agttgacttg 120
 cactgccttg ccgggttgat aaaggcatgg ttccgggagc ttccttcagg tgtattggat 180
 gcactgacac cagaacaagt aatgcactgc aacacggaag gggggtgcgc tctccttgct 240
 tctatgctac caccagtggc agcagcatta cttgactggg ccattaatct gatggccgat 300
 gttgtagagc aagaaaaacta caacaagatg aacgcccggc acatcgcgat ggtttttgcg 360
 cccaatatga ctcagatggc cgatccgtta actgctctga tacatgcggt tcaggtgatg 420
 aatttcttca agaccttaat cttgaagact ctaaaggaac gaaacaaaaa ggatgcggca 480
 cttcaggcat tgcaaccatg ctccagctct ccaaagacc aagacgaaca tcaggtgtcc 540
 gagcattcg 549

<210> 8184

<211> 562

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-B5

<400> 8184

ccaactagca acatagnaaa gcacaatagt gtaccaacaa tggcagccaa aatttttgcc 60
tccttatgct ccttgggtatt tctgcaagtg ctgctacggc gaccattttc ccgcaatgct 120
cacaagctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg tcttcggtat 180
gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcgcagct ggcattcttac 240
ctttatcacc cttgttctc caacaatcat cagccctatt acagcagtta cctttgggtgc 300
atttattggc acaaaacatc agggcacaac aactacaaca acttgtgcta gcaaaccctg 360
ctgcctactc tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg 420
cttcttattt gcaacaacaa caactaccat tcagccagct acctgttgcc taccaccaac 480
aatttcttcc attcaaccaa ctggcagcat tgaactctcc tgcttattta cagcagcaac 540
aactactacc attcagccag ct 562

<210> 8185

<211> 572

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-B7

<400> 8185

atgggtattca gctcatggac atatcatcgc agattttatt caacagagtc atggcccagt 60
tagggctgtg tgctttcagg gctggtttga taaatgaagc ccatgggttg ttgactgagc 120
tctattctac tgggaggggtg aaagaattgc ttgcacaagg tgtgcaacaa agccgatacc 180
atgaaaaaac tcccgaacag gaaagacttg agaggagaag gcaaatgcct taccatatgc 240
atataaacct ggagcttttg gaagccacac acttgatctg tgcgatgctg attgaagtcc 300
ccaatatggc tgccagcacc tatgacaagc gaagacctat gagcaaaaca ttccgaaggc 360
ttcttgaagt gagtgaagg cagacatttg ttgggccgcc cgagaatgtg agggaccatg 420
taatggctgc cacaagagcc ctcaacaagg gtgatcacca aaaggcttct agtgtcataa 480
attcgttggg gatttggag cttttgagga acagagagca tgttcttgag atgttggagc 540
ttaagatcaa ggaggaagct cttagaacct at 572

<210> 8186
<211> 567
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-087-Q1-K6-B9

<400> 8186

tattgaaacc aactagtcaa catagnaaag cacaatattg taccaataat ggcagccaaa 60
atTTTTgCct cattatgctc cttgggtcttt ctgcaagtgc tgctacggcg agcattttcc 120
cgcaatgctc acaagctcct atagcttccc ttcttcccc atacctctca ccagcgatgt 180
cttcagtatg tgaaaatcca attcttctac cctacaggat ccaacaggca atcgcagcag 240
gcatcttacc tttatcacc ttgttctctc aacaatcatc agccctatta cagcagttac 300
ctttggtgca tttattggca caaaacatca gggcacaaca actacaacaa ctcggtgctag 360
caaaccttgc tgctactct cagcaacagc agttaccttt ggtgcatttg ttggcacaaa 420
acatcagggc acaacaacta caacaactcg tgctagcaaa ccttgctgcc tactctcagc 480
aacaacagtt tctgccattc aaccaactag ctgcattgaa ctctgctgct tatttgcagc 540
aacaacaact actaccattc agccagc 567

<210> 8187
<211> 559
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-C1

<400> 8187

ccagtggccc atatccctgg tgctttgttc tttgatgttg atggaatata cgacagaaca 60
tctagtttac cacacatgct gccatctgaa aggcattttc agctgctgta tctgctcttg 120
gcatctacaa caaagacggg atagtagttt atgatggaaa ggggctgttc agtgctgctc 180
gtgtttggtg gatgttccgt gtatttggac atgataaagt ttgggtggtg gatggagggt 240
tgccccaatg gcgcgcttct gggatatgat ttgaatcaag tgctcttagt gatgccatcc 300
taaaggccag tgcagctggt gaagcaattg agaaagttaa ccagggtcaa ttggttggtc 360
caaccacatt tgaagcaaag ttgcagctc atcttctttg gagtcttgat caggtgaaag 420

agaacatcaa caccagaca catcaactta tagatgctcg atcaaacct agatttgatg 480
 gtgcagttcc cgagccacga aaggggatta gaagtgggca tgtgcctggg agcaaagtgtg 540
 ttccgtttcc tcaggttct 559

<210> 8188

<211> 573

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-C10

<400> 8188

tccgcaaaaa acaccaagcg aagcgacta gcaacgacct aacaccaatg gctaccaaga 60
 tattagccct ctttgcgctt cttgcccttt tagtgagcgc aacaaatgcg ttcattattc 120
 cacagtgtc acttgctcct agtgccagta ttccacagtt cttcccacca gttacttcaa 180
 tgggcttcga acatccagcc gtgcaagcct acaggctaca actagcgctt gcggcgagcg 240
 ctttacaaca accaattgcc caattgcaac aacaatcctt ggcacatcta accctacaaa 300
 ccattgcaac gcaacaaca caacaacagt ttctgccatc actgagccac ctagccgtgg 360
 tgaacctgt cacctacttg caacagcagc tgcttgcatc caaccactt gctctggcga 420
 acgtagctgc ataccagcaa caacaacagc tgcaacagtt tatgccagtg ctcaagtcaac 480
 tagccatggt gaacctgcc gtctacctac aactactttc atctagcccg ctgcggtgg 540
 gcaatgcacc tacgtaccta caacaacagt tgc 573

<210> 8189

<211> 572

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-C11

<400> 8189

acacaccaag cgaagcgac tagcaacgac ctaacaacaa tggctaccaa gatttagccc 60
 tccttgcgct tcttgccctt tttgtgagcg caacaaatgc gttcattatt ccacaatgct 120
 cacttgcctc tagtgccatt attccacagt tctcccacc agttacttca atgggcttcg 180
 aacacctagc tgtgcaagcc aacatgcaac aacaagcgct tgcggcgagc gtcttacaac 240

aaccaattgc ccaattgcaa caacaatcct tgccacatct aacaatacaa gccatcacia 300
 cgcaacagca acaacagttc ctaccagcac tgagccacct agccatggtg aaccctgccg 360
 cctacttgca agagcagctg cttgcatcca acccacttgc tctggcgaac gtagttgcaa 420
 accagcaaca acaacagcta caacagtttc tgccaacgct cagtcaacta gccatggtga 480
 accctgccgc ctacgtacaa caacaacaac tgctttcatc tagcccgtc gctgtgggca 540
 atgcacctac atacctgcaa caacaattgt tg 572

<210> 8190

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-C12

<400> 8190

gctcgcagct cctatagctt cccttcttcc ccctgacctc tcaccagcgg tgtcttcggt 60
 atgtgaaaac ccattcttca accctacaga tccaacaggc aatcgcagct ggca 114

<210> 8191

<211> 569

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-C2

<400> 8191

gcacaatagt gtaccaacaa tggcagccaa aatattttgc ttccttatgc tccttgggtc 60
 ttctgcaagt gttgctaccg anaccatttt ccacaaatgc tcacaagctc ctatagcttc 120
 ccttcttccc ccatacctct caccagcggg gtcttcaatg tgtgaaaccc caattgttca 180
 accctacagg atccaacagg caatcgcaac aggcatctta ccattatcac ccttggttct 240
 ccaacaaccg tcagccctat tacagcagtt acctttgggc catttggtgg cacaaaacat 300
 cagggcacia caactacaac aacttggtgct agcaaaccct gctgcatact ctcagcaaca 360
 tcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt tgcaacaaca 420
 attaccattc agccagctag ttgctgccta ccccagcaa tttcttccat tcaaccaact 480
 agcagcattg aactctgctg cttatttaca gcagcaacaa ctactaccat tcagccagct 540

agctgatgtg agccctgctg ccttcttga

569

<210> 8192
<211> 556
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-087-Q1-K6-C3

<400> 8192

gccttcaagg ntgcaatcta ctttcttcag ccactgaaag aaatgtcata atgcttctat 60
ctgacatgtc tgggagatgc ccactttaca ggaaggcata catcttcttc agctcaccga 120
ttcctaaaga cttggttact tacataaaga atgacagtag tgtaatacca cgcacgggtg 180
cactaagaga gatgaatttg gaattcttca ctattgacat gcagggcttt gtaactgacc 240
atgatactgc cctgattgat ttatacgggc caagtgaaca aaattccaaa aagttcaacg 300
atactataag cacaatggct actcgcattg cgactacatt tgcacattg aaggaatttc 360
catgtgtgcg gtatcgggcg ccaaaaggag atgcttccac aacaactaaa ttcgatatgg 420
ttccaaagtg gcttgctact gctgtttggg aaattgtgtc aaaatataaa tcaactattc 480
ctgaatttcc ccagaaggag acatgtgaac tgctaattgt cgacaggccc atagatcaga 540
tagcacctgt tattca 556

<210> 8193
<211> 500
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-087-Q1-K6-C5

<400> 8193

caggcgtgca tgggatggta catgtacgag catctcacta ttatcacttg gatgggnagc 60
aaggaaggca gtgcgtgaac tccccttacc tggctgaaga ttttttagag gggctgcgtg 120
gtcctgtttt ggttgtggcc agtgggtgatt ttgctgttgg tcacctcaat gagtttgagg 180
gccagaagct tgtctcggcc accaggaggg tttcacgctt gttgagcacc gcgttgagca 240
acaacaggaa ggaggagctc acggcagaag tttgagggtc tcttgcaaga tcatcaagga 300

ggttctggtc gacaaggctg acaaggctgt ggtgtctgac cgtgttggtg actcaccgtg 360
 cttccttggtc actggcgagt ttggctggac agccaacatg gcttaggatc atgaaggcgc 420
 ccgccctgag ggactctggc atgtcggggg tcatctccgc gcaaaaagac tatggaaatt 480
 aaccggcat aaccaatca 500

<210> 8194

<211> 518

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-C6

<400> 8194

ccgggggggg gggggctgtg gacaacttgc ttgggtggca cggcttgccc ctaccacct 60
 acagcatcat gcttggtgag gtcctgtcc gtgggtgctt atgatgtgcg cgtgcgcatg 120
 aaagctgtgt ggattttcgg tggcgccgtg cacttttttg tggggaggcg catcgcgccc 180
 tttgtggtgt aggagccgat ggtgatcggg cacgagtgcg cgggcgtggg cgaggaggtg 240
 ggcgccggcg tgacgcacct gtccgtgggc gaccgcgtgg cgctggagcc gggcgtcagc 300
 tgctggcgct gccgccactg caagggcggg cggtacaacc tgtgcgagga catgaagtgc 360
 ttctccaccc cggcggtgca cggttcgctg gcgaaccagg tgggtgcacc ggccgacctg 420
 tgcttnaagc ttcccgacgg ggtgagcctg gaggagggcg ccttgtgcga gccgttggtc 480
 gtgggtgtgc acgcgtgccg ccctgcgggg gtggggcc 518

<210> 8195

<211> 547

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-C7

<400> 8195

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 gaagtatgtt ggtctttgct ttgtggtgga tggtttcca cactcgctg aattcactga 120
 ggtgcttgct aagatctatg agaaactcaa agaagtggga gagaaatttg aagttgtagc 180

tgtatccttg gacagtgaag agtcatcatt taatgagagt ttgcaaaga tgccttggct 240
 tgcaattcct caaggtgaca ttaagtgtca gacgctgggt cgttactttg agcttagttc 300
 tcttccaaca ctagttctga ttggccctga tgggaagaca ctgaacaaca atgtcgccga 360
 cataattgac gaccatgggt ttgagggcatg ggagggcttc cccttcagtg ctgagaagct 420
 ggaaattctt gctgagaagg caaagattaa agctgcatca cangaccttg gagtccattc 480
 taatcagtgg tcatttagac ttgtgcattg gaaaagatgg tgcaaagggt cctgtatcag 540
 aacttgt 547

<210> 8196

<211> 551

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-C8

<400> 8196

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 ggcttcaaca agcaatcgca gcaagcaaca tacctttatc gcccttggtg ttctgacaat 120
 caccagecct atctttggtg cagtcattgg taaaaccat cagggcacia cagctgcagc 180
 aactcgtgct acctgtgatc aaccaagtag ctctggcaaa ctttctccc tactctcagc 240
 aacaacaatt tcttccattc aaccaactgt ctacactgaa ccttgctgct tatttgcagc 300
 aacaactatt accatttagc cagctagcta ctgcctactc tcagcaacia caacttcttc 360
 catttaacca attggccgca ctgaaccccg ctgcttattt gcagcagcaa atactactgc 420
 catttagcga gctagctgca gcaagtcgtg cttccttctt gacacagcaa cagttgctgc 480
 ctttctacia gcagtttgcg gctaaccccg caacctctt acaactacia caattgttgc 540
 attttgtcca a 551

<210> 8197

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-C9

<400> 8197

ttctcagtgc tgtcgcgaca ttcccatgta agttttattc ttttcccgtc ttacaggggt 60
 tgttgtgaaa ccaatttaac tgggaccaca cgctgactga tttccttata cctgtctcac 120
 atatatcttt cagcattcct gggcattttg ccaaaaatag gccacactca aactgtgcta 180
 caaactgtgc tattagacaa agtctttctt accaatacta atgactctgt tttttgcaca 240
 acacactacc attaccgctc ct 262

<210> 8198

<211> 523

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-D10

<400> 8198

ccaaanaatc gcagcacaac aactacaaca acagttgctt ccaacaatca atcaagtagt 60
 tgcagcgaac cttgctgctt acctccagca acaacaattt cttccattca atcaactagc 120
 tgggggtgaac cctgctgctt acttgaggc acaacagcta ctaccattca accaacttgt 180
 caggagccct gctgccttct tactgcagca acagttgctt ccattccatc tacaagttgt 240
 ggcaaacatt gctgctttct tgcaacaaca acaacaattg ctgccatttt acccacaggt 300
 tgtgggaaac attaacgcct tcttgcaaca gcaacagttg ctaccattct acccacagga 360
 tgtggcaaac aatgtcgcct tcttacaaca acaacaattg ctgccattta accaacttgc 420
 tttgacgaat cctaccacct tattgcagca gccaccatt ggtgggtgcc tcttctagat 480
 ttttttatgc tttatactgt aataataaag ttctcatact gat 523

<210> 8199

<211> 559

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-D11

<400> 8199

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 attatccctc tttgcgcttc ttgccctttt tgtgagcgca acaaatgcgt tcattattcc 120

acaatgctca cttgctccta gtgccattat tccacagttc ctccctccag ttacttcaat 180
 gggcttcgaa caccagctg tgcaagccta caggctacaa caagcgcttg cggcgagcgt 240
 cttacaacaa ccaattgccc aattacaaca acaatccttg gcacatctaa ccatacaaac 300
 catcgcaacg caacagcaac aacaatttct accagcactg agccaactag ctgtggtgaa 360
 ccctgtcgcc tacttgcaac agcagttgct tgcattccaac ccacttgctc tggcaaacaat 420
 agttgcatac caacaacaac aacaattgca acagtttcta ccagcgctca gtcaactagc 480
 catggtgaac cctgccgcct acctacaaca gcaacaactg atttcatcta gccctctcgc 540
 tgtggttaat gcacctaca 559

<210> 8200
 <211> 565
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-087-Q1-K6-D2
 <400> 8200

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 tgctccttgg tctttctgca agtgtctgta cggcgaccat tttcccacaa tgctcacaag 120
 ctcttatage ttcccttctt cccccgtacc tctcaccagc ggtgtcttcg gtatgtgaaa 180
 acccaattct tcaaccctat aggatccaac aggcaatcgc agctggcatc ttacctttat 240
 cacccttgtt cctccaacaa tcatcagccc tattacagca gttacctttg gtgcatttat 300
 tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcct 360
 actctcagca acaacagttt cttccattca accaactagc tgcattgaac tctgcttctt 420
 atttgaaca acaacaacta ccattcagcc agctatctgc tgctacccc cagcaatttc 480
 ttccattcaa ccaactgaca gctttgaact ctctgctta tttacagcag caacaactac 540
 taccattcag ccagctagct ggtgt 565

<210> 8201
 <211> 512
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-D5

<400> 8201

gcgaccaaga ttttgccctt ttttatgctc ctcgctcttt ctacatgcgt tgctaacgcg 60
actatcttcc ctcatgctc acatgctccc atctgcttgc cttcttcccc cgtaccttcc 120
atacattatc gccacogtct gccaaaaccc cggtttgag cctgtgtgcg ctgctgcaat 180
gcttggcaca cacagcaaca tgccggcgat cgtaccttgc tcgctttaac attaacctgg 240
cccatttttg cagctgccac taggtgcaga ctttcaaccc actagctttg aaaaacccta 300
cagctacctg ccaacaacca attatctgtg ggcgcctctt ctaccttcgt ctcatgagca 360
acagttcatt ccataaaacc aactgattac actggacgct gctgattatt tgcaaaaaca 420
tctattacct tcttaccaga atagactact ggctactctc atctacagca tccaagtttc 480
atttacacca atcttgccga cactgaaacc tc 512

<210> 8202

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-D6

<400> 8202

cattatctaa ctccaaaacc atgaagctgg tgcttgtggt tcttgctttc attgctttag 60
tatcaagtgt ttcttgtaca cagacaggcg gctgcagctg tggtaacaa caagccatg 120
agcagcaaca tcatccacaa caacatcatc cacaaaaaca acaacatcaa ccaccaccac 180
aacatcacca gcagcagcaa caccaacaac aacaagttca catgccacca caaaaacatc 240
agcaacaaca agaagttcat gttcaacaac aacacaac 278

<210> 8203

<211> 548

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-D7

<400> 8203

gnccaactag caacatagna aagcacaata gtgtaccaac aatggcagcc aaaatttttg 60

cctcettatg ctccttggtc tttctgcaag tgctgctacg gcgaccattt tcccacaatg 120
 ctcacaagct cctatagctt cccttcttcc cccgtacctc tcaccagcgg tgtcttcggg 180
 atgtgaaaac ccaattcttc aaccctatag gatccaacag gcaatcgag ctggcatctt 240
 acctttatca cccttggttc tccaacaatc atcagcccta ttacagcagt tacctttggg 300
 gcatttattg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360
 tgctgcttac tctcagcaac aacagtttct tccattcaac caactagctg cattgaactc 420
 tgcttcttat ttgcaacaac aacaactacc attcagccag ctatctgctg cctaccccca 480
 gcaatttctt ccattcaacc aactgacagc tttgaactct cctgcttatt tacagcagca 540
 acaactac 548

<210> 8204

<211> 576

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-D8

<400> 8204

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 ttccttatgc tccttggctt tttctgcaagt gctgctaccg caaccatttt cccacaatgc 120
 tcacaagctc ctatagcttc ctttcttccc ccatacctct caccagcggg gtcttcagta 180
 tgtgaaaacc caattcttca accctacagg atccaacagg caatcgagc aggcattcta 240
 cctttatcac ccttggttct ccaacaaccg tcagccctat tacagcagtt acctttgggtg 300
 catttggttg cacaaaacat caaggcacia caactacaac aacttgtgct aggaaacctt 360
 gctgcttact ctcagcaaca gcagtttctt ccattcaacc aactggctgc attgaactct 420
 gctgcttatt tgcaacaaca actaccattc agtcagctag ctgctgcta ccccgagcaa 480
 tttcttccat tcaaccaact ggcagcattg aactctgctg cttatttaca acagcaacag 540
 ctaccaccat tcagccagct agctgatgtg agccct 576

<210> 8205

<211> 562

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-D9

<400> 8205

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tgcaagtgtt gctaccgcaa ccattttccc acaatgctca caagctccta tagcttcctt 120
tcttccccca tacctctcac cagcgggtgtc ttcaatgtgt gaaaccccaa ttgttcaacc 180
ctacaggatc caacaggcaa tcgcaacagg catcttacca ttatcacctt tgttcctcca 240
acaaccgtca gccctattac agcagttacc tttggtccat ttggtggcac aaaacatcag 300
ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct gcatactctc agcaacatca 360
gtttcttcca ttcaaccaac tggctgcatt gaactctgct gcttatttgc aacaacaatt 420
accattcagc cagctagttg ctgcctaccc ccagcaattt cttccattca accaactagc 480
agcattgaac tctgctgctt atttacagca gcaacaacta ctaccattca gccagctagc 540
tgatgtgagc cctgctgcct tc 562

<210> 8206

<211> 552

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-E1

<400> 8206

caactagcaa catagnaaag cacaatagtg taccaacaat ggcagccaaa aattttgcct 60
ccttatgctc cttggtcttt ctgcaagtgc tgctacggcg accattttcc cgcaatgctc 120
gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtg cttcggtatg 180
tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgagctg gcattctacc 240
tttatcacc ttgttcttcc aacaatcatc agccctatta caacagttac ctttggtgca 300
tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360
tgccactctc cagcaacagc agtttcttcc attcaaccaa ctaggttcat tgaactctgc 420
ttcttatttg caacaacaac aactaccatt cagccagcta cctgctgcct acccccagca 480
atttcttcca ttcaaccaac tagcagcatt gaactctcct gcttatttac agcagcaaca 540

actactacca tt

552

<210> 8207

<211> 570

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-E10

<400> 8207

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ctcactggaa agactatcac cctcgagggtg gagtcttctg acaccattga caacgtcaag 120
gccaagatcc aggacaagga gggcatcccc ccggaccagc agcgggtcat ctttgctggc 180
aagcagctcg aggacgggcg cacacttgcc gactacaaca tccagaagga gagcacccctc 240
caccttgttc tccgcctcag gggaggcatg cagatcttcg tcaagaccct cactggaaag 300
actatcacc tcgagggtgga gtcttctgac accatcgaca acgtcaaggc caagatccag 360
gacaaggagg gcatccctcc agaccagcag cggtcattt ttgccggcaa gcagctcgag 420
gacggggcga cgctggccga ctacaacatt cagaaggaga gcaccctcca cttgggtgctg 480
cgtctcaggg gcggcatgca gatcttcgtg aagactctga ccggcaagac tatcacccctt 540
gaggtcgagt cttctgatac cattgataat 570

<210> 8208

<211> 568

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-E11

<400> 8208

atgagacgca gcacatanaa agtgaatcca ttagcaacaa tagagcaaca atggcgacca 60
agatattttc cctccttatg ctcccttgctc tttctacatg tggttgctaac gcgacaattt 120
tccctcaatg ctcaaacgt cctatagctt cccttcttcc ccatacctt ccatcaatta 180
tagcttcagt atgtgaaaac ccagctcttc aaccatatag gcttcaacaa gcaatcgag 240
caagcaacat acctttatcg cccttggttg ttcaacaatc accagcccta tctttggtgc 300

agtcattggt acaaaccatc agggcacaac agctgcagca actcgtgcta cctgtgatca 360
 accaagtagc tctggcaaac ctttctccct actctcagca acaacaattt cttccattca 420
 accaactgtc tacactgaac cctgctgctt atttgcagca acaactatta ccatttagcc 480
 agctagctac tgcctactct cagcaacaac aacttcttcc atttaaccaa ttggccgcac 540
 tgaaccccg c gcttatttg cagcagca 568

<210> 8209

<211> 541

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-E12

<400> 8209

ggttgaccca gcgttttgtt caggngcgtt cacatttagg ctgtggtgcg ggcgntgtga 60
 acctcaacac cttggtgaac atgttcagtg ggcttggtgc tgggtggtggt ctatgtgttg 120
 caagtgtcc taatgtgcc ccagaagaac tgtgtgcac acatttagtt cagtttcaag 180
 aatgggtttt tttgtctgca caggagaaca tccgtgcctt ggccgccact gctggaaatg 240
 ttcattgctgg agtggagcga cttcttgga acatgggcca atagaatatg atgacgaaca 300
 taactgtgtt ctgatccatg cgatctgtgg ttggcattgt gagattatgt ntggttgatt 360
 ggtttttagac ctgtgattga gaggcgggtt ttatattctg tgtttaaggg ttaataacga 420
 gtgtaccggt ggaaccttac atataaatgt gggctggtgt catgggtaaa attgttgttg 480
 ttggtacatt gacttctgtt gcatatggat cttttgctat cttatttgca ttcgacatgg 540
 a 541

<210> 8210

<211> 540

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-E3

<400> 8210

agctaagccc gtgccagcag ttcggatcct gcggcgtcgg cagcgtcggc agcccgttcc 60
 tgggccagtg cgtcgagttc ctgaggcacc agtgcagccc ggccggcgacg ccctacggct 120

cgccacagtg ccaggcgctg cagcagcagt gctgccacca gatcaggcag gtggagccgc 180
 tgcaccggtg ccaggcgaca tacggtgtgg tcttgcaagc cttcctgcag cagcagccgc 240
 agggcgagct cgcggcgctg atggcgggcc aggtagcgca gcagctgacg gcgatgtgag 300
 gcctgcagct gcagcagcca ggtccctgcc cttgcaacgc agctgccggc ggtgtctact 360
 actgaggaaa ctatgtactg tagtaataat gtaatggagc cgctgactag ctacctagct 420
 cgctagttaa ctcatttagc ggcatgagc aacgtagtgt caccatcac catgggtggc 480
 agtgtgagca atgacctgaa tgaaccattg aaatggaaag gaataatata taaggaaaaa 540

<210> 8211

<211> 228

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-E4

<400> 8211

tgccattcta cccacagnag tggcaaactt gtcgccttct tacaacaaca gcaattgctg 60
 ccatttagcc aactcgcttt gacgaatcct accaccttat tgcacagcc caccattggt 120
 ggtaccatct tctagatttt ttatgcttta tactgtaata ataaatttct catactgata 180
 tgtgcaactt ctcagtaata aaagattaga gatctatatt ttaagtcc 228

<210> 8212

<211> 523

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-E6

<400> 8212

naccccgcaa ccctcttaca actacaacaa ttgttgccct ttgtccaact tgctttgaca 60
 aaccagcag cctcctacca acaacacatc attggtggtg ccctctttta gattgcttat 120
 tagttgtaat tcaataataa agttttttgg atgatgtatg tggccaacca gaaataagaa 180
 gttacatttc cagattctaa tgtgatattg gtctccaagg gtgttcgata aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa annngggggc 420
 cccnnnaaaa aaaaaaaaaa aaaaaannan nnnnnaaaag aagaaaaaaaa aattttttttt 480
 ttggtggnac aaaaaaaaaa aaaaaatggg cgggtttttta aaa 523

<210> 8213

<211> 556

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-E8

<400> 8213

cccgcgtccg gttggcttct cctccccctc cgggttcgggt tcgggttcgt gaggttctcc 60
 ggggttcgggt ttcgtgggtg agcggatcga gatggcggcg tcggatgttg agtaccgctg 120
 cttcgtcggc ggctctgcct gggccacgga cgaccactcc ctccacaacg cttcagcac 180
 ctacggcgag gtctctgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg 240
 cttcggcttc gtcaccttct ccacggagga ggcgatgagg aacgccatcg agggcatgaa 300
 cggcaaggag ctggacggcc gcaacatcac cgtcaacgag gccagtccc gcggcggccg 360
 tggaggcggc ggcggcggcg ggtacggtgg tggccgtgga ggcggcggct acggcgggtg 420
 cgggcgccgt gatggcggcg gcggctacgg cgggtggcggc ggctacggtg gtggcggcgg 480
 cggctaccgt ggtggtggcg gcggctacgg cgggtggcaac cgtggcggcg gctacggcaa 540
 ctccgaaggg aactgg 556

<210> 8214

<211> 546

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-E9

<400> 8214

gtcgaccag cgtccgttgc tagcgccgtg tccgtacatg cggcgggtgg ggctgccaga 60
 caccaccggc tcatgctacc gcttgccgtc tgatatgccg gctccgttct atctgccgcc 120
 gcagcaacag tcgtaggcat ggcaatacc cactcaacca ccgtattttt gcccggtgcc 180

gcaggtcgga tctctggggg ggggcagtgt tagcagcccg ttcctggggc agtgcgttga 240
 gttactgagg caccagtga gcccgggggc gacgccctac gggtcgccac agtgccaggc 300
 gctgcagcag cagtgtctgc accagatcag gcaggtggag ccgttgccacc ggtaccaggc 360
 gacatacggg gtgggttctgc aatccttctt gcagcatcag ccgcagggcg agcttgaagc 420
 gctggatggc tgaccatggc gcgcaacatg tgacggctga tgtgcggtct gcagctgcag 480
 gatgcaggtc tctgccactt gcaacgtatc tggcgggcggg gtctactact gaggaacta 540
 tgttct 546

<210> 8215

<211> 163

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-F1

<400> 8215

gcgctagcgg cgcccggtaca ccaatggcta ccaggatatt agccctcctt gcgcttcttg 60
 cccttttagt gggcgctncc ngtgcgttgc ttgttcaca gtgctcactt gctccttgtg 120
 cctgttttct ccngttgctg cctcctgttg cttgtgtggg gtt 163

<210> 8216

<211> 569

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-F10

<400> 8216

nannaccaac tagcaacata gnaaagcaca atagtgtacc aacaatggca gccaaaattt 60
 ttgcttcctt atgctccttg gtctttctgc aagtgtgct accgcaacca ttttccaca 120
 atgctcaca gctcctatag cttcctttct tccccatac ctctcaccag cgggtgtcttc 180
 agtatgtgaa aacccaattc ttcaacccta caggatccaa caggcaatcg cagcaggcat 240
 cttaccttta tcacccttgt tctccaaca accgtcagcc ctattacagc agttacctt 300
 ggtgcatttg ttggcacaaa acatcaaggc acaacaacta caacaacttg tgctaggaaa 360

ccttgctgcc tactctcagc aacagcagtt tcttccattc aaccaactgg ctgcattgaa 420
ctctgctgct tatttgcaac aacaactacc attcagtcag ctagctgctg cctaccccca 480
gcaatttctt ccattcaacc aactggcagc attgaactct gctgcttatt tacaacagca 540
acagctacca ccattcagcc agctagctg 569

<210> 8217

<211> 543

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-F11

<400> 8217

acctcgcac agactgcttg ctccaacat tgctctggcg aacgtagctg cataccagca 60
acaacaacag ctgcaacagt ttatgccagt gctcagtcac ctagccatgg tgaaccctgc 120
cgtctaccta caactacttt catctagccc gctcgcggcg ggcaatgcac ctacgtacct 180
acaacaacag ttgctgcaac aaattgtacc agctctgact cagctagctg tggcaaacc 240
tgctgcctac ttacaacagt tgcttccatt caaccaactg gctgtgtcaa actctgctgc 300
gtacctacaa cagcgacaac agttacttaa tccattggca gtggctaacc cattggctgc 360
taccttcttg cagcagcaac aacaattgct gccatacaac cagttctctt tgatgaacc 420
tgcttgcag caaccatcg ttggagggtgc catcttttag attacatatg agatgtactc 480
gacaatggcg cctcatacc gacatgtgtt tctagaaat aatcaatata ttgattgaga 540
ttt 543

<210> 8218

<211> 560

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-F12

<400> 8218

atccagnatc agcaagcggc agtgcgtaga gaggatcgtc gaacagaaca gcatgaagat 60
ggtcacgtgt ctcgctgtgt gcctggctct gtcagctgcc agcgctctg caatgcagat 120

gccctgcccc tgcgcggggc tgcagggctt gtacggcgct ggcgccggcc tgacgacgat 180
 gatgggcgcc ggccgggctgt acccctacgc ggagtagctg aggcagccgc agtgcagccc 240
 gctggcggcg gcgcctact acgcggggtg tgggcagccg agcgccatgt tccagccgct 300
 ccggcaacag tgctgccagc agcagatgag gatgatggac gtgcagtccg tcgcgagca 360
 gctgcagatg atgatgcagc ttgagcgtgc cgctgccgcc agcagcagcc tgtacgagcc 420
 agctctgatg cagcagcagc agcagctgct ggcagcccag ggtctcaacc ccatggccat 480
 gatgatggcg cagaacatgc cggccatggg tggactctac cagtaccagc tgcccagcta 540
 ccgcaccaac ccctgtggcg 560

<210> 8219

<211> 574

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-F2

<400> 8219

cccacgccgt ccgcttagca acatagtaag cacaatagtg taccaacaat ggcagctaaa 60
 atattttgcc tccttatgct ccttggctct tctgcaagtg ctgctacggc gaccattttc 120
 ccacaatgct cacaagctcc tatagcttcc cttcttcccc cgtacctctc accaacgggtg 180
 tcttcgggtat gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcgcagct 240
 ggcattcttac ctttatcacc cttgttcctc caacaatcat cagccctatt acagcagtta 300
 cctttgggtgc atttattggc aaaaaacatc agggcacaac aactacaaca acttgtgcta 360
 gcaaacccttg ctgcctactc tcagcaacag cagtttcttc cattcaacca actagctgca 420
 ttgaactctg cttcttattt gcaacaacaa caactaccat tcagccagct atctgctgcc 480
 tccccccagc aatttcttcc attcaaccaa ctgacagcat tgaactctcc tgcttattta 540
 cagcagcaac aactactacc attcagccag ctgag 574

<210> 8220

<211> 554

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-F3

<400> 8220

ccccgcgtcc gctccggtgc atctcccacc gccgggtccac ctgccgccgc cgggtccacct 60
gccaccgccg gtccatgtgc cgccgccggt tcattctgccg ccgccaccat gccactaccc 120
tactcaaccg ccccggcctc agcctcatcc ccagccacac ccatgcccgt gccaacagcc 180
gcatccaagc ccgtgccagc tgcagggaac ctgcgggcgtt ggcagcaccc cgatcctggg 240
ccagtgcgtc gagttcctga ggcattcagt cagccccgacg gcgacgccct actgctcgcc 300
tcagtgccag tcgttgccgc agcagtgttg ccagcagctc aggcaggtgg agccgcagca 360
ccggtaccag gcgatcttcg gcttggctct ccagtcctac ctgcagcagc agccgcaaag 420
cggccaggtc gcgggggctg ttggcgggcg agatagcgca gcaactgacg gcgatgtgcg 480
gcctgcagca gccgactcca tgcccctacg ctgctgccgg gcggtgtccc ccactgaaga 540
aactatngtg ctgt 554

<210> 8221

<211> 327

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-F4

<400> 8221

gtgngaaaca gtagcaacaa tagagcaaca atggcgggcca agatattttc catccttatg 60
ctccttgctc tttctgcatg tgttgctaac gcgaccattt ttcctcaata ctcaagct 120
cctatagctg cccttcttcc ccctacatt ccattcaatga ccgcttcagt ttgtgaaaac 180
ccagcccttc aaccctacag gctccaacaa gcaatcgcaa caagcaactt acctttatca 240
ccctgtttct ttcaacaatc gccagcccta tctttggtgc agtcattggt acaaaccatc 300
agggcacaac agctgcaaca actcgtg 327

<210> 8222

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-F6

<400> 8222

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acaacaacaa ttgtgccat tttaccacaca ggttgtggga aacattaacg ccttcttgca 120
acagcaacag ttgtaccat tctaccacaca ggatgtggga aacaatgtcg ccttcttaca 180
acaacaacaa ttgtgccat ttaaccaact tgctttgacg aatcctacca ccttattgca 240
gcagcccacc attggtggtg ccatcttcta gattttttta tgctttatac tgtaataata 300
aagttctcat actgatatgt gcaacttctc agtaataaaa gattagagat ctatatttt 359

<210> 8223

<211> 567

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-F7

<400> 8223

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atcgttgccc ttgctctect ggcgctcgct gcgagcgccg cctccagtag aagcggcggc 120
tgtgggtgcc agacaccacc gtttcatcta ccgcctccgt tctatatgcc gcctccgttc 180
tatctgccgc cgcagcagca gccgcagcca tggcaatacc ccaactcaacc accgcagcta 240
agcccgtgcc agcagttcgg atcctgcggc gtcggcagcg tcggcagccc gttcctgggc 300
cagtgcgtcg agttcctgag gcaccagtgc agcccggcgg cgacgcccta cggctcgcca 360
cagtgccagg cgctgcagca gcagtgtgc caccagatca ggcaggtgga gccgctgcac 420
cgggtaccagg cgacatacgg tngtggtcct gcagtccttc ctgcagcagc agccgcaggg 480
cgagctcgcg gcgctgatgg cggcccaggt agcgcagcag ctgacggcga tgtgcggcct 540
gcagctgcag cagccaggtc cctgccc 567

<210> 8224

<211> 586

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-F8

<400> 8224

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ccttatgctc cttggtcttt ctgcaagtgc tgctaccgca accattttcc cacaatgctc 120
acaagctcct atagcttcct ttcttcccc atacctctca ccagcgggtg cttcagtatg 180
tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgcagcag gcatcttacc 240
tttatcacc ttgttcctcc aacaaccgtc agccctatta cagcagttac ctttggtgca 300
tttggttgga caaaacatca aggcacaaca actacaacaa cttgtgctag gaaaccttgc 360
tgectactct cagcaacagc agtttcttcc attcaaccaa ctggctgcat tgaactctgc 420
tgcttatttg caacaacaac taccattcag tcagctagct gctgcctacc cccagcaatt 480
tcttccattc aaccaactgg cagcattgaa ctctgctgct tatttacaac agcaacagct 540
accaccattc agccagctag ctgatgtgag cctgtgtgcc ttcttg 586

<210> 8225

<211> 566

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-G1

<400> 8225

aacatagnaa agtggnaatc cagtagcaac aatagnagca acaatggcga ccaagaactt 60
tccctcetta tgctccttgc tctttctgca tgtgttgcta acgcgacaat tttccctcaa 120
tgctcacaag ctcttatagc ttccttctt ccccatacc ttccatcaat gatagcttca 180
gtatgtgaaa acccagctct tcaaccctat aggtccaac aagcaatcgc agcaagcaac 240
atacctttat cacccttggt tcaacaatcg ccagccctat ctttggtgca gtcattggta 300
caaaccatca aggcacagca gctgcagcaa ctctgcttac ctgtgatcaa ccaagtagct 360
ctggcaaacc tttctccta ctatcagcaa caacaatttc ttccattcaa ccaactatct 420
aactgaacc ctgctgctta ttgacagaa caactattac cattcagcca gctagctact 480
gctactctc atcaacaaca acttcttcca ttttaaccaat tggcgcgact gaacctcgct 540
gcttatttgc agcagcaaat attact 566

<210> 8226
<211> 568
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-G10

<400> 8226

tccgcttcaa tagcaccatc aggtggcatg ccaatcaaac ttacagaagc accactaact 60
gcttcgaaga agaaccctgt tagtcgtcca tcaaagcctg ttggaccacc tccaggatTT 120
aatcatgtaa ccccaaagcg tcaagatgat tctattccgg ttgaaaaact gcagaacca 180
caggtcgatg attacagctg gctagatagc tatcagcaat cgattgatca tgttcacagc 240
ttaagaacta tttatcctgg tgtcagtgat actagcactg catttgccac tccattctct. 300
ttccctggga ggatacacac acaagggacc aatgaaaaga cttggcaaga tttccacctt 360
tttgagcctt caaacagaa catgttccaa acttaccacc aaagaaatct gcaaagtggT 420
caaatggatg aacaagagcc agcaaattct atctggtcta gcagttacca tgtgtgattt 480
ggtaactttt accaggatga ttgctggagt ttctggggac agactattgg attaagtggc 540
acgacctgat ctattgagct tagcccat 568

<210> 8227
<211> 565
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-087-Q1-K6-G11

<400> 8227

gtcgacccag cgtccttggn gccgtggctt tttgcnagc cagcactcac cgaccgcggn 60
tatggccccg tcgccatggc ctctccttgc gacttccctc ctctcatcc tattccacca 120
ctcgctcgc gccgggcgcg cgtttccgcc gtctcttggc gacggcctcc tgggcgcgcg 180
ccgcgcgcgc ggtttcgcgg cgtggctgcg cggttgcgcg cgccgcaccc acgagcgccc 240
cgagctcgcc ttccaggagc accgcaccag cgagctcgtc cgcgacgagc tcgacgcgat 300
cggggtgcgc tacgcgtggc ccgtcgcgca gacgggcgtc gtggcgacca tcgccggcgg 360
cagcgatggc cccgtcgtcg cgctccgagc cgactttttc tctctacct tgcaggaatt 420

ggtagactgg gaacacaaga gccaggagaa tggaaagcat gcatgcttgt ggacatgatg 480
ctcacacaac ggagcttctt ggggcagctt aattgcttca tgctcggaag gatgatctgg 540
aaggtaccgt gaagcttgtc ttcca 565

<210> 8228
<211> 566
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-087-Q1-K6-G12

<400> 8228

gngaaccaac aagcaacata gnaaagtgga tacagtagca acaatagagc aacaatggcg 60
gccaagatat tttccatcct tatgtcctt gctctttctg catgtgttgc taacgcgacc 120
atTTTTcctc aatactcaca agctcctata gctgcccttc ttcccccata ccttccatca 180
atgaccgctt cagtttgtga aaaccagcc cttcaacct acaggctcca acaagcaatc 240
gcaacaagca acttaccttt atcaccctg ttctttcaac aatcgccagc cctatctttg 300
gtgcagtcac tggtaaaaac catcagggca caacagctgc aacaactcgt gctaccagtg 360
atcagccaag tagctctggc aaacctttct cctactctc agcaacaaca atttcttcca 420
ttcaaccaac tgtctacact gaacctgtgt gcttatttac aacaacaaca actactacca 480
ttcagccagc tagctactgc ctactctcag cagcaacaat ttcttccatt taaccaattg 540
gccgcactga acccctctgc ttatatt 566

<210> 8229
<211> 218
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-087-Q1-K6-G2

<400> 8229

taaaacagna gatacaagna gttggagtgc ttttgtgaag gcttttgca anacttgaag 60
cgtagtact tttgtgaatg attttgtaaa gtgtttgcaa atatgtgcaa aacataataa 120
catgtgtagg ttttgcaat gattttgttg tgatgcttgt tgatgggtta tgtgatgtgg 180

atctatcatt gtgcaatact aattaaattt gtatatct

218

<210> 8230

<211> 567

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-G3

<400> 8230

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tattttgctt ctttatgttc cttggtcttt ctgcaagtgt tgctaccgca accattttcc 120

cacaatgttc acaagctcct atagcttccc ttcttccccc atacctctca ccagcgggtgt 180

cttcaatgtg tgaaaaccca attgttcaac cctacaggat ccaacaggca atcgcaacag 240

gcattctacc attatcacc ttgttcctcc aacaaccgtc agccctatta cagcagttac 300

ctttggtcca tttggtggca caaaacatca gggcacaaca actacaaca cttgtgctag 360

caaaccttgc tgcatactct cagcaacatc agtttcttcc attcaaccaa ctggctgcat 420

tgaactctgc tgcttatttg caacaacaat taccattcag ccagctagtt gctgcctacc 480

cccagcaatt tcttcattc aaccaactag cagcattgaa ctctgctgct tatttacagc 540

agcaacaact actaccattc agccagc 567

<210> 8231

<211> 555

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-G4

<400> 8231

gttctagnac gcgacggccg cccttttttt tttttttttt tttttttttt tttttttttt 60

tttttttaga aatgtacttt cttattttctg ggaagccaca aacatcagac aaaaaacttt 120

attattgaac tataactcat aagaaatcta aaagagggca ccaccaatga tgggttgttg 180

gtagaatgct gctgggtttg tcaaagcaag ttggttgaat ggcagcaatt gttgcagttg 240

taagaggggtg ccagcggttag ggcagcgtg ctggtagaac ggcaacaact gtggttgtgt 300

caagaaggta gcagggctca caccagctag ctggctgaat ggtagtagtt gttgctgctg 360
 taaataagca ggagagttca atgctgtcag ttgggtgaat ggaaaaaatt gctgggggta 420
 ggcagcaa at agctggctga atggtagttg ttgttgctgc aaataagaag cagagttcaa 480
 tgcagctagt ttgggtgaatg gaaaaaactg ctgttgctga aagtaggcag caaggtttgc 540
 tagcacaagt tgttg 555

<210> 8232
 <211> 529
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-G5

<400> 8232

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 tttcttcccc cgtgccttcc atcattttgtg gctgctgggt gtgcaaacc agctcttcaa 180
 ccctgtgggc ttcaacaagc tatcgccgcc tgcctctttc ctttatcgcc cttgttggtt 240
 caacaatcac cagccctatc tttggtgcag tcattgggtc aaaccatcag ggcacaactg 300
 ctgctggcaac tcgtgctacc tgtgatcaac caagtagctc tggcaaacct ttctccctac 360
 tctcagcagc aacaatttct tccattcaac caactgtcta cactgaacct tgctgcttat 420
 ttatagcaac aactattacc atttagccag ctagctactg cctactctca gcaacaacaa 480
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<210> 8233
 <211> 567
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-G6

<400> 8233

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 agtcaactag ccattggtgaa ccctgccgcc tacctacaac agcaacaact gctttcatct 180

agccccgctcg ctgtggccaa tgcacctaca tacctgcaac aacaattggt gcaacagatt 240
 gtaccagctc tgactcagct agttgtggca aaccctgctg cctacttgca acagctgctt 300
 ccattcaacc aactgactat gtcgaactct gctgctgacc tacaacagcg acaacagtta 360
 cttaatccac tagcagtggc taaccattg gtcgctgcct tcctacagca gcaacaattg 420
 ctgccataca accagttctc ttgataaac cctgtcttgt cgaggcagca acccatcggt 480
 ggaggtgcc tcttttagat tacatatgag atgtactcga taatggtgcc ctcattccgg 540
 catgtgtttc ctagaaataa tcaatat 567

<210> 8234

<211> 567

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-G7

<400> 8234

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 tttttgccat ccttgccctc cttgctcttt cagcaagcgt tgctaccgag actattattc 120
 cacaatgctc acaacaatac ctctctccgg tgacagccgc gagatttgaa taccctaacta 180
 tacaatccta caggctacaa gaggccatcg cagcaagcat cttacggtcg ttagcattga 240
 ccgtccaaca accacatgcc ctattgcaac aaccatcctt aatgaatcta tatctccaaa 300
 gaatgcgagc acaacaacta caacaacagt tgcttccaac aatcaatcaa gtagttgcag 360
 cgaaccttgc tgcttacctc cagcaacaac aatttcttcc attcaatcaa ctagctgggg 420
 tgaaccctgc tgcttacttg caggcacaac agctactacc attcaaccaa cttgtcagga 480
 gccctgctgc cttcttactg cagcaacagt tgcttccatt ccatctacaa gttgtggcaa 540
 acattgctgc tttcttgcaa caacaac 567

<210> 8235

<211> 575

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-G8

<400> 8235

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 cctggtcaag tctgttgctg ccggaggtag acggacgcct tatcgtgctc gtggccgcag 120
 ctagcgcgcc ggagccacag ctggagcgct cgccggcgac gagtcgccgc cccgcaagga 180
 gcctacgcag gcacgcaccg ccacgtctag ggcgcaggcg gagacgttat taccacaaca 240
 ttaaaggaga tgccttcact ccagaaagca ttgcctccag aacttgctga taatgtgctc 300
 aggttatatc gtgaatgctt acggagggcg aagtatattg gccatcagaa acacaatata 360
 gaacttttag tcgccatggt gagacaacaa ttcaagaaaa acatgcatga aactgatcca 420
 gagaagatac agaaaatgaa ggacgatgct gcaagggggc ttatcaatca tattctatat 480
 gagtccgaga agattacagg acgcaagttt tcagggttaa aacagaagtt gaaactggac 540
 ttacangtgt gtcgtgctgt atgaataata gtaaa 575

<210> 8236

<211> 581

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-G9

<400> 8236

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 taccgcctcc gttctatatg ccgcctccgt tctatctgcc gccgcagcag cagccgcagc 120
 catggcaata cccactcaa ccaccgcagc taagcccgtg ccagcagttc ggatcctgcg 180
 gcgtcggcag cgtcggcagc ccgttcctgg gccagtgcgt cgagttcctg aggcaccagt 240
 gcagccccgc ggcgacgccc tacggctcgc cacagtgccg ggcgctgcag cagcagtgct 300
 gccaccagat caggcaggtg gagccgctgc accggtacca ggcgacatac ggntgtggtc 360
 ctgcagtcct tcttcagca gcagccgcag ggcgagctcg cggcgctgat ggcggcccag 420
 gtagcgcagc agctgacggc gatgtgcggt ctgcagctgc agcagccagg tccctgcctt 480
 tgcaacgcag ctngccggcg gtgtctacta ctgaggaaac tatgtacctg tagtaataat 540
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<210> 8237

<211> 556
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-087-Q1-K6-H1

<400> 8237

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ttcagcattc aaaaaaacac accaagncca agcgactag caacgnnacc taacaccaat 60
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cggttcattat tccacaatgc tcaattgctc ctagtgccat tattccacag ttctcccccac 180
cagttacttc aatggggcttc gaacatccag ccgtgcaagc ctacaggcta caactagcgc 240
ttgcgggcgag cgccttaca caaccaattg cccaattgca acaacaatcc ttggcacatt 300
taaccctaca aaccattgca acgcaacaac aacaacaaca acagtttctg ccatcactga 360
gccacctagc cgtgggtgaac cctgtcacct acttgcaaca gcagctgctt gcatccaacc 420
cacttgctct ggccaacgta gctgcatacc agcaacaaca acagctgcaa cagtttatgc 480
cagtgtcag tcaactagcc atgggtgaacc ctgccgtcta cctacaacta ctttcatcta 540
gcccgtcgc ggtggg 556
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<210> 8238
 <211> 575
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-087-Q1-K6-H11

<400> 8238

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tgccctggctc tgtcagctgc cagcgccctc gcaatgcaga tgccctgccc ctgcgcgggg 120
ctgcagggct tgtacggcgc tggcgccggc ctgacgacga tgatgggcgc cggcggggctg 180
taccctacg cggagtacct gaggcagccg cagtgcagcc cgctggcggc ggcgccttac 240
tacgccgggt gtgggcagcc gagcgccatg ttccagccgc tccggcaaca gtgctgccag 300
cagcagatga ggatgatgga cgtgcagtc gtcgcgcagc agctgcagat gatgatgcag 360
cttgagcgtg ccgctgccgc cagcagcagc ctgtacgagc cagctctgat gcagcagcag 420
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cagcagctgc tggcagccca gggctctcaac cccatggcca tgatgatggc gcagaacatg 480
 ccggccatgg gtggactcta ccagtaccag ctgcccagct accgncacca acccctgtgg 540
 cgtctccgct gccattccgc cctactactg attca 575

<210> 8239

<211> 575

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-H12

<400> 8239

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 gaagctgaag tagttcgttg tgaadccagt atggcaaacg cgccgaggat cctggccctc 120
 ggcttgcctgc tagcgtcctt gtgcgtgcc gccggcccgg ccgccgcgca gaactgcggc 180
 tgccagccta acttctgctg cagcaagttc ggctactgcg gcacgaccga cgactactgc 240
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 ggaggcagtg gcggtgcgaa cgtggctaac gtggtcagcg acgcgttctt caacggcatc 360
 aagaaccagg ccgggagcgg gtgcgagggc aagaacttct acaccggag cgcgttcttg 420
 agcgcctgca acaagtacct gggcttcgcc catggcggga cggaggtgga gggcaagcgc 480
 gagatcgccg ctttcttcgc gcacgtcacg cagcagaccg gacatttctg ctacatcagc 540
 gagatcaaca agagcaacgc ctactgcgac gcaag 575

<210> 8240

<211> 574

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-H3

<400> 8240

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 acaacatcac caacaatcac aaggccatgt gcaacaacac gaacagagcc atgagcaaca 120
 ccaaggacag agccatgagc aacaacatca acaacaattc cagggtcatg acaagcagca 180
 acaaccacaa cagcctcagc aatatcagca ggnngccagg aaaaatcaca acagcaacaa 240

tgtcattgcc aggagcagca acagactaca aggtgcagct ataactacta tagcagtagc 300
 tcaaattctaa aaaattgtca tgaattccta aggcagcagt gcagcccttt ggtaatgcct 360
 tttctccaat cacgtttgat acaaccaagt agctgccagg tattgcagca acaatggtgt 420
 catgatctta ggcagattga gccacaatac attcaccaag caatctacaa catgggttcaa 480
 tccataatcc aggaggagca acaacaacaa ccatgtgagt tatgtggatc tcaacaagct 540
 actcaaagtg cggtggcaat cttgacagca gcac 574

<210> 8241

<211> 555

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-H4

<400> 8241

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 agcaccacgc ttccatggag gggcgcgag gctaagtata gccaacctct acaccatatt 120
 cccatggatt gagcggattc ccaaggcatg ggtacaaacc ctcacctgca agagctggcc 180
 gcttcggcgg tggcggcttc tgaaccacca ccgcggggcg gcgtggtgcg gatcctagt 240
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 gctgcnggag atccgcgacc cgcacaaccg ccgcagactg tggctcggca ccttcgacac 480
 cgctgaggag gctgccaacg cctacgacgc tgcgaaacatc cgcttccggc ggtgtcagcg 540
 ccactaccaa cttcc 555

<210> 8242

<211> 550

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-H5

<400> 8242

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 ggggtgctcag cctcggttac agcaaccgtc tccttcgcgt cccgcgccgc ggcgctcttc 120
 ggcgcccggt tctcctactg cctgggtcgac cacctcgccc cgcggaacgc caccagctac 180
 ctcaccttcg gccagaacct ggccgtgtcc tgggcctccg agacggcctg cgggggctcg 240
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 cgcctgttct acgcggtcgc cgtcaacggc gtctccgtcg acggggagct cctccggatc 360
 ccgcgccgcg tctgggacgt cgagaagggc ggcgggcgcca tcctcgactc cggcacgagc 420
 ctcacgggtc tcgtgagccc ggcggtaccgc gccgtggtgg cggcactgag caggaagctg 480
 gccggggtgc cccgggtggc catggacctg ttcgactact gctacaactg gacgtcgccg 540
 tccacgggcg 550

<210> 8243

<211> 572

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-087-Q1-K6-H6

<400> 8243

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 aatattttgc ctcttatgc tccttgggtc ttctgcaagt gctgctacgg cgaccatttt 120
 cccgcaatgc tcgcaagctc ctatagcttc ccttcttccc ccgtacctct caccagcggc 180
 gtcttcggta tgtgaaaacc caattcttca accctacagg atccaacagg caatcgcagc 240
 tggcatctta cctttatcac ccttgttcct ccaacaatca tcagccctat tacaacagtt 300
 acctttggtg catttattgg cacaaaacat cagggcacaa caactacaac aacttgtgct 360
 agcaaacctt gctgcctact ctgagcaaca gcagtttctt ccattcaacc aactagggtc 420
 attgaactct gcttcttatt tgcaacaaca acaactacca ttcagccagc tacctgctgc 480
 ctacccccag caatttcttc cattcaacca actagcagca ttgaactctc ctgcttattt 540
 acagcagcaa caactactac cattcagcca gc 572

<210> 8244

<211> 569
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-087-Q1-K6-H8

<400> 8244

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cttgctgggc ctgaagggtga agagcacgag ttgatgctc cagacgacgc ctacatcctt 180
gacgcagccg agactgccgg tgtggagttg ccatactcgt gccgtgctgg ggcttgctcc 240
acctgtgccg gcaaaatcga gtctgggtcg gttgaccagt cggatgggtc cttccttgat 300
gacgggcagc aggaggaagg ttatgtgctg acatgctct cctacccaaa gtccgactgc 360
gtcatccaca cccacaagga aggcgacctg tactagggct agggattttc aatttggcga 420
gggaccaaaa atgctctcga gtgggtgctt gtcaagcaaa gtcctatctg cgcgccctac 480
cccgttgtgc gaactgtttg gcatcaaaact tgtgtggttg ctgtcttcta tgttctgcta 540
gtttatgttc ggagtccgtg ggaatatac 569

<210> 8245
<211> 607
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3061-087-Q1-K6-H9

<400> 8245

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tgttgctaac ggcaccattt ttctcaata ctcaaacgt cctatagctg cccttcttcc 180
cccatacctt ccatcaatga ccgctttagt atgtgaaaac ccagcccttc aaccctacag 240
gatccagcaa gcaatcgcaa caagcaactt acctttatca cacctgttct ttcaacaatc 300
gccagcccta tctttggtgc agtcattggg acaaaccatc agggcagaac agttgcagca 360
actcgtgcta ccagtgatca gccaaagtagc tctggcaaac ctttccccct actctcagca 420
acaacaattt cttccattca accaactgtc tatactgaac cctgctgctt atttgcagca 480

acaacaacta ctaccattca gccagctagc tactgectac tctcagcagc aacaatttct 540
 tccatttaac caattggccg cactgaaccc ctctgcttat ttccagcagc aaatactact 600
 accattt 607

<210> 8246
 <211> 54
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-088-Q1-N6-A10
 <400> 8246

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<210> 8247
 <211> 244
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-088-Q1-N6-B4
 <400> 8247

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 aaaaaagggc cccccccatt attgggtttt tgttgaaaac ttttgggttt gtcaaaaaca 120
 gttggttgaa tggccccaat tgtttccttt ttttagagggg gcccccgttt ggcttttcgg 180
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 gctg 244

<210> 8248
 <211> 302
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3061-088-Q1-N6-C11
 <400> 8248

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 tttttttttt tttttttttt gggggggggc cctctttttt ttgggggggc cccccctcc 120
 tcccaaaaac cttttttttg gttttcccg gggggggggg gttaaagggg gccccccca 180

cgctgtgttg ttgggggggg gctgctgggt ttttccaccc caggtgggccc aggggcccc 240
 cccgggggtt ttgtttgggg ggtgcggggt tcccccccc cttcttgtct tccggcccc 300
 cc 302

<210> 8249

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-N6-C12

<400> 8249

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 ttaagatggc ccctcccccc ttgggttggg ggctgggcct ggccggggtt ctctaagaga 180
 actggttatt tggctgccat tgttctgct gttgggaggg ggcttccctt gggtttgccc 240
 cttcccatgg gtttagtccc tgttgcccct tttgttggtt cccccctctg ttcgtccgtt 300
 tccgtttggg tggttgggtg ccgcttttgc cctgtggcct ccgggtttgc cccctcttgt 360
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<210> 8250

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-N6-C2

<400> 8250

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 taaactagcg agctaggtag ctagtacgag gctccattac attattacta cagtacatag 180
 tttcctcagt agtagacacc gccggcagct gcgttgcaag ggcagggacc tggctgctgc 240
 agctgcaggc cgcacatcgc cgtcagctgc tgcgcttccct gggccgcat cagcgccgag 300
 agctgcacct gcggctgctg ctgccggaag gactgtcgga cctcacgctc tgtttcctgg 360
 ttccggtgtc tttgtttcac ctgc 384

<210> 8251
 <211> 543
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-088-Q1-N6-C3

 <400> 8251

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 tctacctata gacatcaaaa tatccccact gctttcgtat caaggatgga ctgcaaaaat 180
 gacaaggtct aggcagatgc agggccttgc tgccctgaagc cattgttgcg ctcgaccctc 240
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 tggccgttct gatggtagcc gtggccgttc tgaggggtggc cgttcccttg cgggccacgg 360
 acacgacctg agtagtcgtt cctcatgtta tccccgccgt ttagtagacc gttgttctga 420
 ccgccccact gccgcttgta gccgtcccca tagtaaccac cacctctgcc agaatggaac 480
 cgaccgccac cgccattgcc attgtcatcc ccacgggtga taacaccatc aacaactcgt 540
 gtt 543

<210> 8252
 <211> 247
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3061-088-Q1-N6-D11

 <400> 8252

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 ttattgaact ataactcata agaaatctaa aagagggcac caccaatgat gggttgttgg 120
 tngaagtctg ttgggtttgt caaagcaagt tggttgaatg gcagcaattg ttgcngttgt 180
 nagaggggtgc cagcgtttgg cgcagcgtgc tggttgtacg gcaacaattg tggttgtgtc 240
 aagaagg 247

<210> 8253

<211> 537
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-088-Q1-N6-D4

<400> 8253

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tttggtttac acattttttt gggtgggggg gggggggggg tccattgggg ggggtggggga 180
attttggggg gggggggggg ccagggggga tttggggggg gggggggggg ggcggggggg 240
gcatgggtgg gggggggggg gggggggggg aaagccccac cgggctgggg gggggggggg 300
ggggcccca tgggtcacgg ggtggggggg gggggggggg gggggggagg ggttgggcgg 360
gggggggggg ggggtggcgg gagaaagggg ggggaagagg ggttgggggg gggcgggagt 420
gggtcccggg tttctggcgg gggggggggg ggccccccgg atttccctaa cggggccggc 480
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<210> 8254
 <211> 522
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3061-088-Q1-N6-D9

<400> 8254

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ctcacgacaa ctgttgaaaa gggaaaatca gtacatgatg gccacaaaca tgcaagagct 120
ggaagtagat tccgggtnga ggtccaacgt ccaaggctct cgctatctcg agtccacaac 180
ggtgccttct ggaagcgcg acaggtgcac aagaggggca tgtgatttca gggaagcatt 240
ggcaccagtg atcttggctt cctttgttct gttgagcacc ttcttcacct cgtttgcaag 300
ctctatgatc gaatcatctt cgtggcta at gctggcta gcttctcca ttgagaacag 360
gtaatcccta ttatagccag tagggccatt ggctgtagca atttgccttg ccatatctg 420
caaaggagca gggccaagat agtacttggt gccaatgga tctggagtgg aaacgaacac 480

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taagacgcct gtcacagctg gtttcaaggg atctccttcc tt

522

<210> 8255

<211> 537

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-088-Q1-N6-E12

<400> 8255

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ccaaaaaact ttattattga attacaacta ataagcaatc taaaagaggc accaccaatg 120

atgtgttggt ggtaggaggc tgctggggtt ggcaaagcaa gttggacaaa gggcaacaat 180

tgttgtagtt gtaagagggg tgcgggggta gccgcaaact gctgggtgaa aggcagcaac 240

tgttgctgtg tcaagaagga agcacggctt gctgcagctt gctggctaaa tggtngttat 300

ttttgctgct gccnattagc ngcgagggtc agtgcgggcca attgggttaa tggaagaagt 360

tgttgttggt gagagttggc tgctgcttgc tggctgaatg gttattgttg ttgctgcccc 420

tttgctccg ggtttccgtg tttgttcgtt gggttgaatg gtcgtaattt gctgtttgcc 480

tgtcgggttg ggggcacggg tttgcccgtg gcttctttgg tttctttccc aagtctg 537

<210> 8256

<211> 508

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-088-Q1-N6-E3

<400> 8256

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ttaagcaaag ggtggatttt gatacacng agaagatata caggacggct gtttagagga 120

gaggtcgctt cgattcggcg gcacgctcgc gtctctccgt tccccatgat ggatggatgc 180

tcatgaagac cagcagctga ggcgcaacgc ctctcgaac ttgctttcca gctccttacc 240

agcgtcggcc ggcgccgatg acttgatctc ctgcggcgcg tcgcgctcgt gcagtgtcgc 300

ctccccctcc ggcgccact gcaacaaagc gggtagagac acgctgctca cgctcatcct 360

cctccagaag ccgccggggg cagccgcctc cctgcgcggc ggccggggcg gcgtccccac 420
ctccgtcggc ctgtggagct ggtggtagct caggaacagc atcgacgcgc tcggggccat 480
cgccactctg atgaatctct ggttcgct 508

<210> 8257

<211> 533

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-N6-E5

<400> 8257

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tgaaatcgaa taaagatacg gatatccata ttaacggttt cagcaaatac gaataattcg 120
gatctccaga catccatttc cagtcctact tatagtggtc tgatcgatga tgcacaacag 180
catgaggctc atctcatatt ttccctcata tttaaactct ctaaccattg cagctgcaaa 240
atagtgtttt ccacaacccat acgcacgacc ctgcaacaaa cgagtccaac aatatgaacc 300
agcaaaagca agctatagca caccaggggtg aactgcagat tctttctgag ttttgcacct 360
gttgcaaaac gcacgagatg cgtagtgtgtg gttgttgagc ttgttgacac accagtcccc 420
gtcgcgccat tttgcccctt ttacgataag accagacatt ccctgcccag atggtaaatga 480
cattgagctc ccatagtcaa atttcgaaaa agcagcctgg ccattgctgc tta 533

<210> 8258

<211> 544

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-088-Q1-N6-E8

<400> 8258

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ccaaagtctt tgggaaacca agtgacata actccaatac acgactaaca atgcgaattg 180
cggtgaaaca gatcgaaatg caggcgatgg ttctccggcc tgggcttctt cttcttcttc 240
tttccccgta ctaatcgaag gacagcggaa cctggcttgc caggctacgg tacttcaggg 300

cgtagaacat ctcgatgtag cggcgggtct cgcgcctctc caggttgctc acgtacttcc 360
 agaacccgta cagcccggtc agggatcatca gcctctcgga gtagagcttc caggtgtact 420
 tctcatagat tctctgcagg ccgccctgtg agatcttgct ccagtagctc ggatctgcct 480
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 tgtg 544

<210> 8259
 <211> 514
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-088-Q1-N6-E9

<400> 8259

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 tttttttttt tttttttttt tttggggggg gggggggggg tttttttttt ttttcccgcg 180
 gcgcgcccc ccgggggggg ggtcccccg ggggggggacg ttttccggcc cgggggcccc 240
 cccggggggg gggttcccc ccgggggggg gccccctta aaaaccttgt tttttttccc 300
 cccggggggg cgcccccg ggggggggaa aaacgggggg tgtacctgct ggggcccctg 360
 ggggggttgc ctttttgga aggggggggc gtttttttcc cccccccaca gttttgtttt 420
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 tggggggggg gttcctgggg ggccccccct ttec 514

<210> 8260
 <211> 83
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-088-Q1-N6-F1

<400> 8260

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 tttgttgggg ggggtggggg ggg 83

<210> 8261

<211> 518
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-088-Q1-N6-F11

 <400> 8261

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 atatgattgc agaagtgctc caccgtgcag ccacctctgt cgggtggaaag aacaactggg 180
 tctgtgaaat cagggtgctg gccctgtggc tttgtttaca cctcactag gcccatctcc 240
 tcccacattc tcgcaagtag tctgtccaag ttcagcttca aattgcagct gatcactagt 300
 gaatttggtt gccgagcaag attatcaacg tcacgattc caacaacatc gatcttggtt 360
 tatacgtaga cgcactttat gtacttccgg ttccttcga taacgtcaat gagatcatcc 420
 acagtagcat cttcacggaa taacacctca gcattgtgaa ttttgttctc gtgcagaatt 480
 tgatagcaca gcttctcatc aatttgagtc aaaggaac 518

<210> 8262
 <211> 213
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3061-088-Q1-N6-G1

 <400> 8262

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 ggttccgtgt tcaagagcac agctagtctt ccttccgcgc cgctgggttt gtttgtgggg 120
 gtgggtttctt tttgtttttg tggttggggt gggggtcggc gtcgtccctg gtgctttttt 180
 tgccctttgg gtttgcccc ctggtttttt ttt 213

<210> 8263
 <211> 277
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3061-088-Q1-N6-H5

 <400> 8263

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ttctttccct tggctttccc gttttttggg gcgcctttcg ggccctgngt tggttccatt 120
tcccgggggt ntcctttgct tgtggcctgg ggggtggtggc gtnccctttn cgcctccctg 180
tcttctgttg gggcccggtt ttctgtccct cccgttgccg gttgtttctt tttgttttct 240
gtccctccct ccgcgcctcc cgggtggttg ttgcccc 277

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<210>      8264
<211>      363
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3061-088-Q1-N6-H9

<400>      8264

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tttttttttt tttttgttct tggggggggc cttctttttt tggggggggc gccccctcc 120
tccccaaaac tttctttttg ggggcttccc cttggggggg ggggaaaaag ggcccccccc 180
ctggtggggg ggggggtgaa cccttttggg gttggcccc caaggggggt ggggtgggcg 240
ccttgggggg gttgggtggg gggggcccg gttggggccg cgtgctggtt gttccgcccc 300
ccctgggggt gtggttgggg ggggtccggg gttcctttt cttgttgggc cgttgggggg 360
ggg 363

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<210>      8265
<211>      429
<212>      DNA
<213>      Zea mays

<223>      unsure at all n locations
<223>      Clone ID: LIB3061-090-Q1-N6-A1

<400>      8265

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gagaacctag agcttctgca ttaagcgatt aatccgagtc aaataatgaa ctccacaggc 180
ctaatacataa aggccttctt gtccecaagc gttcacaagc aaatctacca tttcgccaag 240

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aggtatcggg tgggagaatg gcttattgct tncatgcaga ctttcatacg ttgtgttcca 300
acttaacttt ggttctcgag gctgttgaga tctaaagtgg cggttttttgc tttcaaccca 360
ctgttggtctg gtctgggtcc agagcataag accttgattc ataaactcat tcgggttggt 420
tgaactttc 429

<210> 8266
<211> 550
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-A11

<400> 8266

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aactataact cataagaaat ctaaaagggg caccaccaat gatgggttgt tggtagaaca 120
ctgctagggt tgtcaaagca agttggttga atggcagcaa ttgttgagct tgtaagaggg 180
tgccagcggt aggcgcagcg tgctggtaga acggcaacaa ctgtggttgt gtcaagaagg 240
tagcaggggt cacaccagct agctggctga atggtagtag ttgttgctgc tgtaataaag 300
caggagagtt caatgctgcc agttggttga atggaagaaa ttgttggggg taggcaacag 360
gtagctggct gaatggtagt tgttgttgtt gcaaataaga agcagagtgc aatgcaacta 420
gttggttgaa tggaagaaac tgctgttgc gagagtaggc agcaaggttt gctagcacia 480
gttggtttag ttggtgtgcc ctgatgtttt gtgccaataa atgcacaaa ggtaactgct 540
gtaataaggc 550

<210> 8267
<211> 115
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-A3

<400> 8267

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tttttttttt tttttttttt tttttttttt ttttttttta tttttttttt gggttt 115

<210> 8268

<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-A4

<400> 8268

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caagtattga ttatttctgg aaacacatgt cggtatgagg gcaccattgc ggtcatctca 120
tatgtaatct aaaagaggca cctccaacga tgggttgctg caaggcaggt tcatcaaaaa 180
gaatggttga ttgcaacaat tga 203

<210> 8269
<211> 498
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-A8

<400> 8269

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atgggtcaagg aacagcatgc cagacaacgc atcttgcgcc cgaacgctcg acttcctgtc 180
aagcggctct taccatacca aggttacacg atccatcgat gcaataccat tgtaggttct 240
tgtttttag acgcaaagc agccgatcta tatgacagac ccatcgttga tggttgcatt 300
cttcaagatc accacgattc cagaccttat gtagtacct tcttcgggt gatcagcctc 360
ttggatgcc ttactgtttg tgatcaccac gttctttcca atcctagcat tcatgtcaat 420
gatacagttc cttatctttg tgttccttcc tattccaact gggaccttcc caactaacag 480
tatcttttga agcttttt 498

<210> 8270
<211> 559
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-A9

<400> 8270

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gatgggttgc tgcaaggcag ggttcatcaa agagaactgg ttgtatggca gcaattgttg 180
ttgctgctgc aggaaggtag cgaccaatgg gttagccact gccaatggat taagtaactg 240
ttgtcgctgt tgtaggtacg cagcagagtt tgacacagcc agttggttga atggaagcaa 300
ctgttgtaag taggcagcag ggtttgccac agctagctga gtcagagctg gtacaatttg 360
ttgcagcaac tgttgttgta ggtacgtagg tgcattgccc accgcgagcg ggctagatga 420
aagtagttgt aggtagacgg cagggttcac catggctagt tgactgagca ctggcataaa 480
ctgttgacgc tgttgttggt gctggatgc aactaccttc gccagaacaa gtggtttggg 540
tgcaagcagc tgctgttgc 559

<210> 8271

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-B1

<400> 8271

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tgctcacact gccacccatg gtgatgggtg aactccggt actcatcgcc gctaaacgag 120
tgaactagct atagccctat aggtagctag tcagcggctc cattacatta ttactacagt 180
acatagtttc ctacgtagta gacaccgccg gcagctgcgt tgcaagggca gggacctggc 240
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gccgcgagct cgccctgcgg ctgctgctgc aggaaggact gcaggaccac accgtatgtc 360
gcctgggtacc ggtgcagcgg ctccacctgc ctgatctggt ggcagcactg ctgctgcagc 420
gcctggcact gtggcgagcc gtagggcgtc gccgccgggc tgcactggtg ccttaagaac 480

<210> 8272

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-B10

<400> 8272

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attacaacta ataagcaatc taaaagaggc accgccaatg atgtgttggt ggtagaaggc 120

tgctggggtt gtcaaagcaa gttggacaaa gggcagcaac tgttgcagtt gtaagagggt 180

tgcggggtta gccacaaact gctggtagaa cggaagcact tcttgacaca acaacaagt 239

<210> 8273

<211> 570

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-090-Q1-N6-B11

<400> 8273

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acnatccatc gaaacttcat gtatcatagc tacaatgcag ctgctccttg gcccttcggt 180

aacttctttg ttccggagtc ttccacatcc tttagttggt aataatgtgg tgctatctct 240

accagccatt caggcttcag ttccgtcacc tggcgcataa actctttcgt cgtgagaact 300

aattcgtggt aactaccca ccgcgacgt acctccgcta atcctgaact aggatggata 360

tgcacggtct gagggttctt gacagtctta tatgtaccat ccctctgcaa ccgtgcagag 420

tgatggaaga aacctgatgt tatagctttt ttaatagcat ctaaactact ggtgtttgag 480

caaatctcaa tctcaactct ttccataagc ccatctagtt gatcccgat atctcttgcc 540

ctcttcacgc tgcgcacctg tatatagttt 570

<210> 8274

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-B3

<400> 8274

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tttggggggg gccaaaaact tgagacaaaa aatttttttt tgggatttat cctataaaga 180
aattaaaagg ggggcccccc caaggggggg ttggggggga gagcgggtgg ggtttgaaaa 240
aaaaggtggg ttaaggggga caatttgggg aggttgaaag aggggcccga gttttgggga 300
aaggtggggg gaaaaaggaa aaattggggg ttgtt 335

<210> 8275

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-090-Q1-N6-B4

<400> 8275

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atacaagcta cgtacagctc aagcagttaa atatgctcgt aaagcatttg acgtcagatt 120
ggaataaaat cgcacatcgg gagcaagccc ccagtagata tatactttgg aaacaccatc 180
taatatcagt ttgatcacat atcacgtgaa caaacggcgg agtcgtcctt ggctcgagaga 240
ttagcggttct actcgccggc cccgcagcaa gctgccaaca ctggccggtta agtggtcgcc 300
attgtcaaat aaaatncggg agcgggtctcg ttagcacggg aagaaggcag tcagacttct 360
ttgccgccgg actgaggaag gcagacgtaa gcccggtggc ccggcgg 407

<210> 8276

<211> 552

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-B7

<400> 8276

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aacattgaag gacacaaaag agcaaaaaga aagaaaaaat gccttggtatg acacttttat 180
tgctccgatg atctccaaca gactgatctg cagatcacgc atgtaaccag gtgctgatca 240
ttgtcgaatg tcgagacaca cagctgcatg tcgcacgttc acttcatata actgttccac 300

tagggagtaa agcatccttg atcactgtga caattccacc ttgatgaag taccggtctg 360
tctcccttgc agcttcttga acattgtcag cattgagtat cttaacattg tctccaattc 420
gagcattctt gtcaatgatt gctctcctga tgcatagaatt tttcccaata ccaataggaa 480
tgccaccttt ttgggcaagg agttttttat cagcttctgt ctcatagtag tccgcaccca 540
ttagtaaaact gt 552

<210> 8277
<211> 67
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-B8

<400> 8277

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ggggggag 67

<210> 8278
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-C1

<400> 8278

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aactataact cataagcaat ctaaaagggg caccaccaat gatgggttgt tggtagaaca 120
ctgttgagtt tgtcaaagca agttggttga atggcagcaa ttgttg 166

<210> 8279
<211> 562
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-C10

<400> 8279

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aattacaact aataagcaat ctaaaagggg caccgccaat gatgtgttgt tggtagaagg 120

ctgctggggtt tgtcaaagca agttggacaa agggcagcaa ctgttgcagt tgtaagaggg 180
 ttgcgggggtt agccacaaac tgctggtaga acggaagcac ttgttgttgt gtcaagaagg 240
 aagcgggggtt tggtgtagct agctggccaa atggtagtag tatttgctgc tggaaataag 300
 cagagggggtt cagtgcggcc aattgggttaa atggaagaaa ttgttgctgc tgagagtagg 360
 cagtagctag ctggctgaat ggtagtagtt gttgttgctg caaataagca gcaggggttca 420
 gtatagacag ttggttgaat ggaagaaatt gttgttgctt gagatagggg ggaaagggtt 480
 gccagagcta cttggctgat cactggtagc acgagttgct gcaactgttc tgccttgag 540
 ggtttgtacc aatgactgca cc 562

<210> 8280

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-C2

<400> 8280

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 gctgctgggt ttgtcaaagc aagttgggtg aatggcagca attgttgcag ttgtaagagg 180
 gtgccagcgt tagggcgagc gtgctggtag aacggcaaca actgtgggtg tatcaagaag 240
 gtagcagggc tcacaccagc tagctggctg aatggtagta gttgttgctg ctgtaaatag 300
 caggagagtt caatgctgcc agttgggtga atggaagaaa ttgctggggg taggcagcag 360
 gtagctggct gaatgggaat tggtgttgtt gcaaataaga agcagagttc aatgcagcta 420
 gttggttgaa tgg 433

<210> 8281

<211> 550

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-C3

<400> 8281

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ctttattatt gaattacaac taataagcaa tctaaaagag gcaccaccaa tgatgtgttg 120
 ttggtaggag gccgctgggt ctgtcaaagc aagttggaca aagggcaaca attgtttag 180
 ttgtaagagg gttgcggggg tagccgcaaa ctgctggtag aaaggcagca actgttgctg 240
 tgtcaagaag gaagcacggt ttgctgcagc tagctggcta aatggtagta gtatttgctg 300
 ctgcaaataa acagcggggg tcagtgcggc caattgggta aatggaagaa gttgttggtg 360
 ctgaaagtag gcagtagcta gctggctaaa tggtaatagt tgttgctgca aataagcagc 420
 agggttcagt gtagacagtt ggttgaatgg aagaaattgt tgttgctgaa agtagggaga 480
 aaagtttgcc aaagctactt ggttgatcag aggtagcacg agttgctgca acttttgctg 540
 cctgatgggt 550

<210> 8282
 <211> 533
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-C4

<400> 8282

gaataatcaa aagcactgga ttggtggaat ctgtacaagg tagcaaaact tgcactctct 60
 ccatacgagc atatagacag acatatagta gcaaatgctt catgtttcgt cgctggactt 120
 gtgatcttta cggacaagaa agtatacgga aacttgctgt aggcaaaacc agtcgcatgc 180
 agttggccat ttgcatgaaa gggtaggaat gatcaaaaat caaattcctt ggccccccct 240
 taccgaaaa gtgaaaatta cggcaaaaag aaacacgccg atgagccctt ctcccaaaaa 300
 gtcgtcgaac cattaccatc aaggccacca atcctttcaa acttgccgct ggctgagccc 360
 tttcagcacg acctgaacgc tagtaccgct tccaagaaa cacgccgatt aggacagaca 420
 gcagggcaac tcccaggatg aacttgaagg ccatgatgcc ggaaggttct tgcactcctt 480
 gcaggggttg gttttggtga gacagcctga gttttgtctt gctgcttgcc tga 533

<210> 8283
 <211> 252
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3061-090-Q1-N6-C6

<400> 8283

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gactcaacta gctggctggc cggcggTTTT tctgcagctc atagtttctt cagtggggga 180
caccgccggc tgcagcgttg gggcgtggtg tttgttggtg taggccgtac attggcgttt 240
gttgcctgcgc tt 252

<210> 8284

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-C7

<400> 8284

aagaatctag aaatgtactt tcttatttct gggaagccac aaacatcatc caaaaaactt 60
cattattgaa gtataactca taagcaatct aaaaggggca ccaccaatga tgggttggtg 120
gtagaacgct gttgggtttg tcaaagcaag ttggttgaat ggcagcaatt gttgcagttg 180
taagaggggtg ccagcgttag ggcagcgtg caggtagaac ggcaacaact gttgttggtg 240
caagaatgca acagggctca catcagctag ctggctgaat ggtggtagct gttgctggtg 300
ttaattagca gcagagttca atgctgccag ttggttgaat ggaagaaatt gctggggggt 360
ggcagcttct tagctgactt gatggtagtc gttgttgcca ataatccgct tgattttaat 420
gccccagtt tggtttgatg tgaagaaact ggt 453

<210> 8285

<211> 522

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-C8

<400> 8285

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acaccctgga gaaccaagaa gcggtcacct aatgcgggcc tagtgtggtg cagagtcaat 120
tatatgacgg tgttatcagt cgtacagtga agaaaccttg tgaatatatc taatctctat 180

caggtgtagg catgtgatct gaacccctgc tgccatctgt ccttgctggg gagcccttgt 240
gccttgttat gtttcgacag aacatatcca gctcttcttc ctttcccttg atttcacagg 300
accaaagtac tgggtccaca ttcttgggca aggattcttg aagtttggac ccctcactta 360
gccactgctc agctttattg cactcattgt caacagcatc cctttcaggt gcggataatg 420
acttggcagc cattctgtgg tcaacaatgc atttcaaaag ctcccttgcg atttcagctc 480
tcacttcgtc atcattacaa cgattttcaa ttggatctac aa 522

<210> 8286

<211> 558

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-D10

<400> 8286

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attacaacta ataagcaatc taaaagaggc accaccaatg atgtgttggt ggtaggaggc 120
tgctggggtt gtcaaagcaa gttggacaaa gggcaacaat tgttgtagtt gtaagagggt 180
tgcggggtta gccgcaaact gctggtagaa aggcagcaac tgttgctgtg tcaagaagga 240
agcacggctt gctgcagcta gctggctaaa tggtagtaat atttgctgct gcaaataagc 300
agcgagggtc agtgcggccca attggttaaa tggaagaagt tgttgttgat gagagtaggc 360
agtagctagc tggctgaatg gtaatagttg ttgctgcaaa taagcagcag ggttcagtgt 420
agatagttgg ttgaatggaa gaaattgttg ttgctgatag tagggagaaa ggtttgccag 480
agctacttgg ttgatcacag gtagcacgag ttgctgcagc tgctgtgcct tgatggtttg 540
taccaatgac tgcaccaa 558

<210> 8287

<211> 488

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-D11

<400> 8287

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gcaccattat cgagtacatc tcatatgtaa tctaaaagag gcacctccaa cgatgggttg 120
ctgcctcgac aagacaggat tcatcaaaga gaactgggtg tatggcagca attgttgctg 180
ctgtaggaag gcggcgacca atgggttagc cactaccaat ggattaagta actgttgctg 240
ctgttgtagg tacgcagcag agttcgacag agtcagttgg ttgaatggaa gcagctgttg 300
caagtaggca acaggggttg ccacagctag ttgagtcaga gctgggtacaa tctgttgcaa 360
caattgttgt tgcaggatg taggtgcatt gccacagcg agcgggctag atgaaagcag 420
ttgttggtgt tgtacgtagg cggcaggggt caccatggct agttgactga gcgttggcag 480
aaactgtt 488

<210> 8288
<211> 554
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-090-Q1-N6-D12
<400> 8288

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aaccaggcca gcgctgcccc aaaacgtca aacaaggaaa aaaacgagaa ggaaccaaag 120
ttcttggaag ccaagtacac ataactccaa tacacgacta acaatgcaaa ttgcggtgaa 180
acagatcgaa atgcaggcga tggttctccg gcctgggctt cttcttcttc ttctttcccc 240
gtactaatcg aaggacagcg gaacctggct tgccaggcta cgggtacttca gggcgtagaa 300
catctcgatg tagcggcggg tctcgcgct ctccagggtg ctcacgtact tccagaacct 360
gtacacgccg gtcagggtca tcagcctctc ggagtagagc ttccagggtg acttctcata 420
gattctctgc aggcgcgctt gtgagatctt gtcccagtag ctccgatctg ccttgcatth 480
gtcaaagaag ttgaccagga tatccgcggc cttgtcgtg ttgtaagggt caatgtgcag 540
gccagatacc cagt 554

<210> 8289
<211> 529
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3061-090-Q1-N6-D2

<400> 8289

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ttcaattgtt cattcaggtc attgctcaca ctgacactgc caccatggg gatgcgtgac 120
acattattac tcaatcatcg ccgctaaatg actcaactag ctagctagcc agcggctata 180
ctacagcaca tagttttctt agtgggggac accgccggca gcagcgtagg ggcatggagt 240
cggctgctgc aggccgcaca tcgccgtcag ttgctgcgct atctgcgccg ccaacagccc 300
cgcgacctgg ccgctttgtg gctgctgctg caggatggac tggaggacca agccgaagat 360
cgcttggtac cggctgctgc gctccacctg cctgagctgc tggcaacact gctgccgcaa 420
cgactggcac tgaggcgagc agtagggcgt cgcggttcgg cttgactgat gccttaaaaa 480
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<210> 8290

<211> 492

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3061-090-Q1-N6-D5

<400> 8290

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cacaaataaa ttattgagca tcatacatgt accggtccat taatttgatg tccataccta 120
tgacgtttgc tcaaatcgga catacataat gtcagcacca aagctatcgg aagcaccaaa 180
aagatcggct agatataccta tgaagaatga agcgcattgg gttcttccac agcttagcgc 240
tttgtactgc ctggacgagc ggggccaaaa tagttcgtca ccagacccat aacagcaaac 300
atgaaggcca tagaaagctg cttcagatcg ttctcaaagt tcttcatgtt tgccaacgac 360
tgagcgcaga agatgattgc gatccacgag cacaccttgt agcggagcat gacgccgagg 420
acgccgaaga cgacggcgag gaagcctgga tagtcgatgg gtaggtcctg gggcgacagc 480
ttcggcggcg cg 492

<210> 8291

<211> 423

<212> DNA

<213> Zea mays